An Evaluation of Technology in West Virginia Schools: Results from a Teacher and Student Survey

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Prepared for:
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EXECUTIVE SUMMARY

The Study

This report is an evaluation of the results of an on-line survey conducted by the West Virginia Governor's Office on Technology. There were almost six hundred responses from teachers representing all K-12 levels of instruction. This response is more than satisfactory to conclude the opinions expressed are representative of teachers in general

The student survey included slightly more than 125 students. While all grades were represented, the majority of responses came from grades 6, 7 and 8. Neither the sample size nor its grade distribution can provide as much confidence in the results as can the teacher survey. But since the student responses clearly parallel those of teachers, they represent an important insight into the perceptions, feelings and needs of students, particularly in middle school.

Findings

Teacher Responses. The survey of teacher responses to the questions asked regarding their use of technology and what they viewed as the barriers to expanded use and increased effectiveness in using and teaching technology can be summarized as follows.

- The vast majority of teachers are enthusiastic regarding teaching and using technology for instruction and administrative purposes. The greatest use was for administration, but a solid majority was employing it for classroom instruction.
- The evidence was strong that teachers were not only using technology, but were anxious to improve their abilities. Many saw themselves as technology "savvy" and mentoring other teachers in technology.
- Almost all teachers saw the benefits to their students of receiving instruction in technology and providing assignments, reports and activities that required the use of technology. They saw technology as not only preparing students for the world of work they would be entering, but as a way to increase learning and enjoyment.
- One of the two greatest problems in using technology is inadequate numbers of computers. Most teachers do not have sufficient numbers of computers in their classrooms. While almost all taught in schools with computer laboratories these were generally not available when needed which limited the teacher's ability to assign technology based work or provide instruction.
- The second greatest problem was the age of the computers. From the responses, it appeared that many if not most of the computers were antiquated and not capable of running much of the educational software and more advanced programs.
- The age of the computers was a major factor in explaining the poor condition of the computers. Virtually all respondents noted concerns in fixing computer problems and obtaining replacements. With significant numbers of computers inoperable, the problems with inadequate numbers were intensified.
- There was inadequate technical support for teachers. The number of qualified technicians was severely limited meaning that machines remained unfixed, programs uninstalled and instruction interrupted or curtailed. The unreliability of computers and the inadequate

technical support reduced the willingness of teachers to more fully employ technology in their classrooms. This was a major reason why teachers did not make greater use of technology in their classes.

- Teachers expressed a need for more training. Most had six or fewer hours of instruction in technology and felt that amount to be inadequate. With new and often more complex interactive programs available, constant updating of technology skills was viewed as a must.
- By far the greatest felt need by teachers was for more training in ways to integrate technology into the subjects they taught. Just transmitting skills to students does not provide the type of relevant instruction that students need to make the subject come alive. Ways to integrate technology is a most pressing and immediate need according to the respondents.
- As a result of the problems noted, simple word processing was the most frequently used technology. Often the more advanced and interactive technologies were not used. Students also were receiving only very limited training in spreadsheets and data bases.

Student Responses. Students were asked about their use of technology and its availability. Their opinions on a variety of topics were solicited. The survey of student responses provided the following insights.

- Students in general were enthused about technology. They enjoyed using technology and often found it a better way to learn than traditional instructional styles. A very significant majority saw the importance of technology in their lives and future endeavors.
- While students made use of the internet for research and communication, most felt their access to the internet was too restricted. Often they could not get on the internet due to the machines not being capable or connections not being available. Many of the web-sites could not be accessed due to the age of the machines.
- Students were not receiving most of their knowledge or training about technology in school. Friends, classmates and self exploration were the most significant paths to acquiring knowledge.
- Most students did the majority of their technology based class work from home rather than from school. This was due to limited access at school and inability to fully use the internet.
- For students without home internet, they turned to homes of their friends and classmates which provided their primary source of access. But the significant number who did not have access from home or other alternative put those students at a clear disadvantage in gaining benefits from technology.
- Regarding on-line courses students responded with little enthusiasm. This was not surprising as a significant majority did not have on-line classes available to them or did not know if the on-line classes were available. Therefore, the majority would have no basis to evaluate their benefit.
- While not quite as concerned about the availability of computers as their teachers, many students did feel the lack of access inhibited their ability to use technology.
- One of the major complaints concerned the internet. Slow and limited access, particularly at school, was viewed as a significant problem.
- There was a general lack of available out-of-class technology activities such as after school programs, classes or clubs. An important means of gaining and reinforcing skills and knowledge was either absent or poorly publicized.

- While agreeing with teachers about the problems created by inferior tech support, students supported the development and use of trained student technicians. This was seen as having two benefits; first, to reduce the amount of computer downtime, and second, to expand the technology skills of the selected student technicians.

Conclusions

There was general consistency between the responses of teachers and students to the survey. Those responses both critique the use of technology and point the direction that delivery of technology education in West Virginia should move forward.

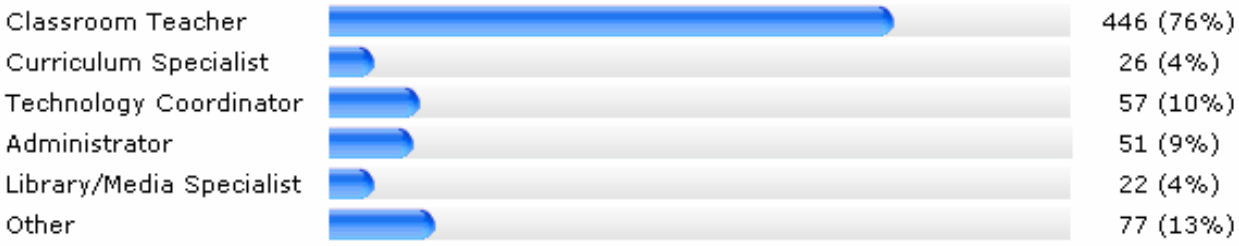
- More and better computers should be the first priority.
- Improved access at school and away from school is a necessity.
- Expanded ability to use the internet and more advanced software is essential.
- Emphasis on teacher training, particularity in integration and application is extremely important.
- Vastly improved tech support is vital.

Meeting these challenges will take increased resources. But even more, it will require vision and coordination. Preparing students for the new economy that is and will continue to be technology driven, is a challenge which must be met!

TEACHER SURVEY

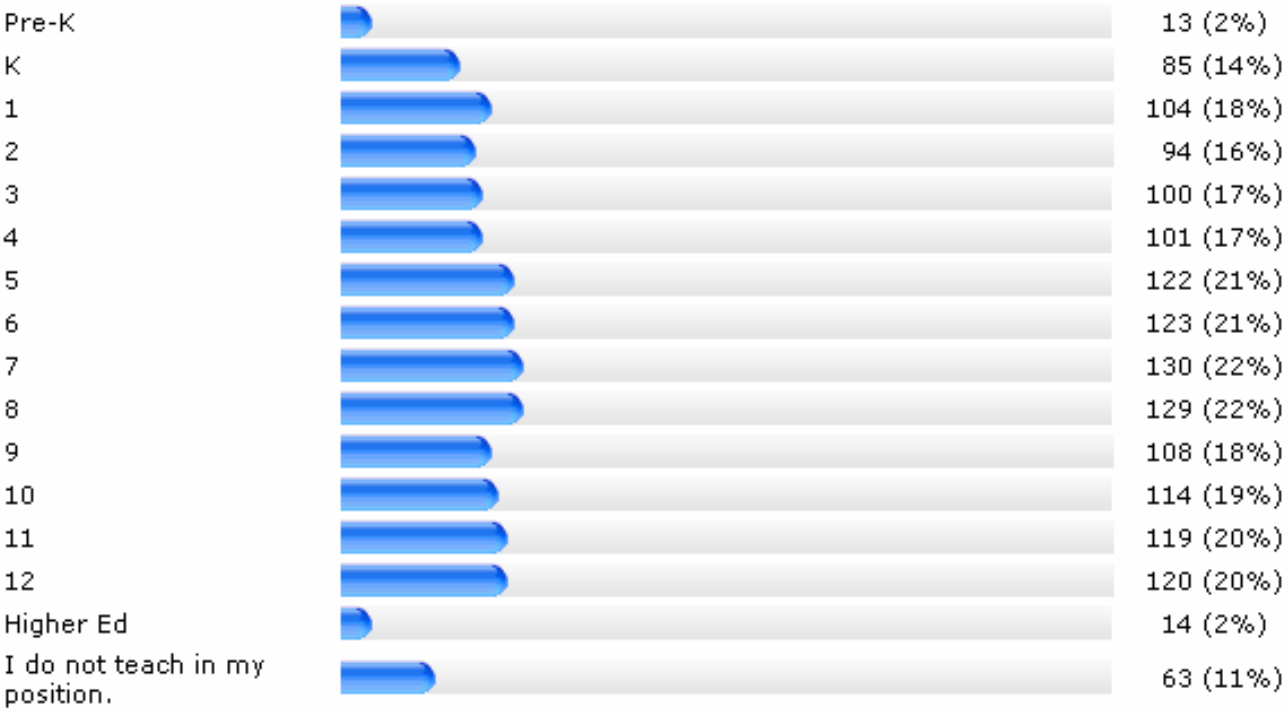
1. Which of the following are included in your job responsibilities? (Select all that apply).

The vast majority of the respondents were classroom teachers which gives particular credibility to the survey results. These are the individuals in the best position to evaluate the needs of students regarding technology instruction. The survey provides an accurate reflection of teacher needs and what will be the most productive use of monies spent on technology education.



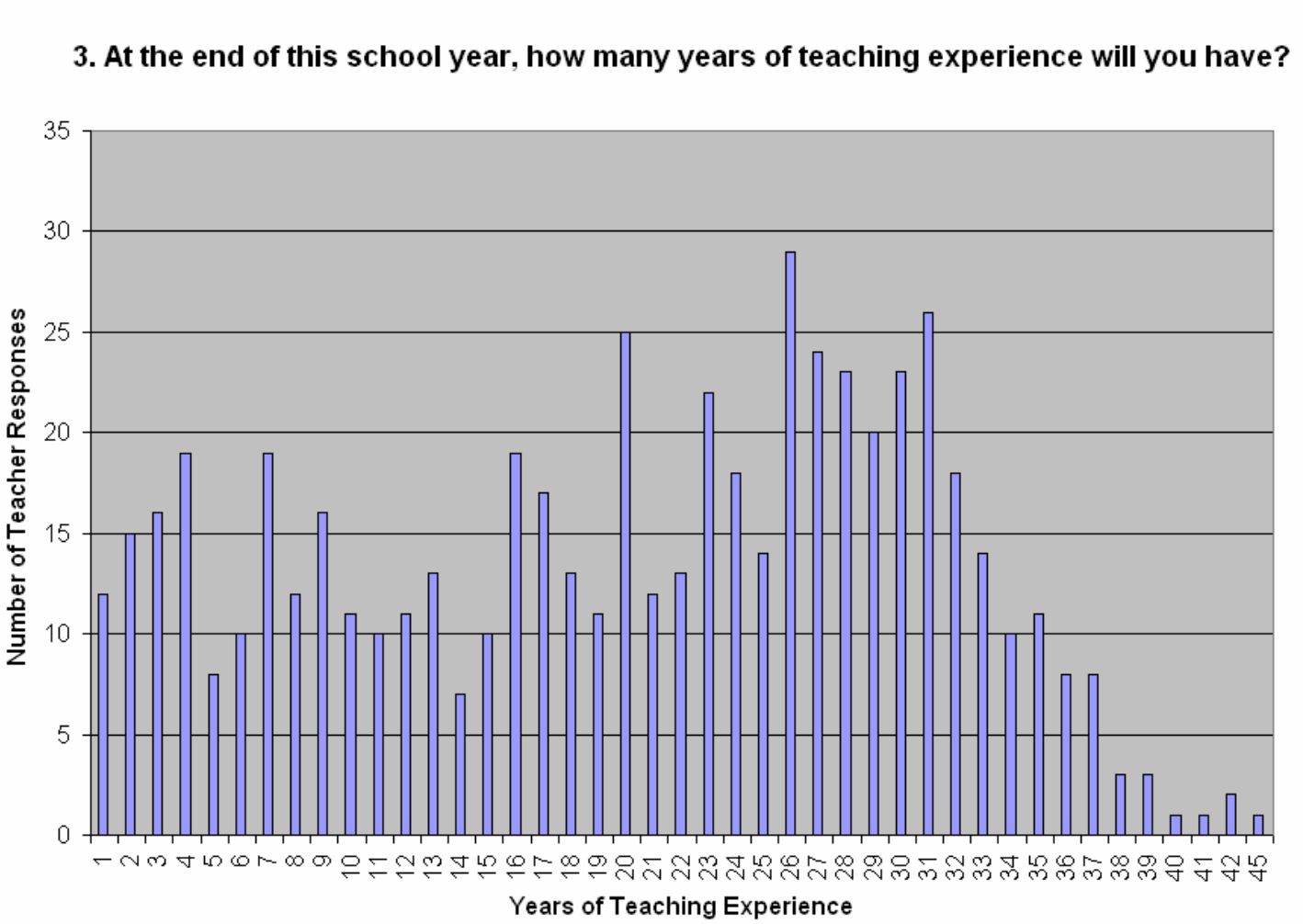
2. What grades do you teach? (Select all that apply).

The respondents to the survey represented the full range of instruction from Pre-K-12. There are a sufficient number of respondents for each education level to provide conclusions which are applicable to the entire system of public education.



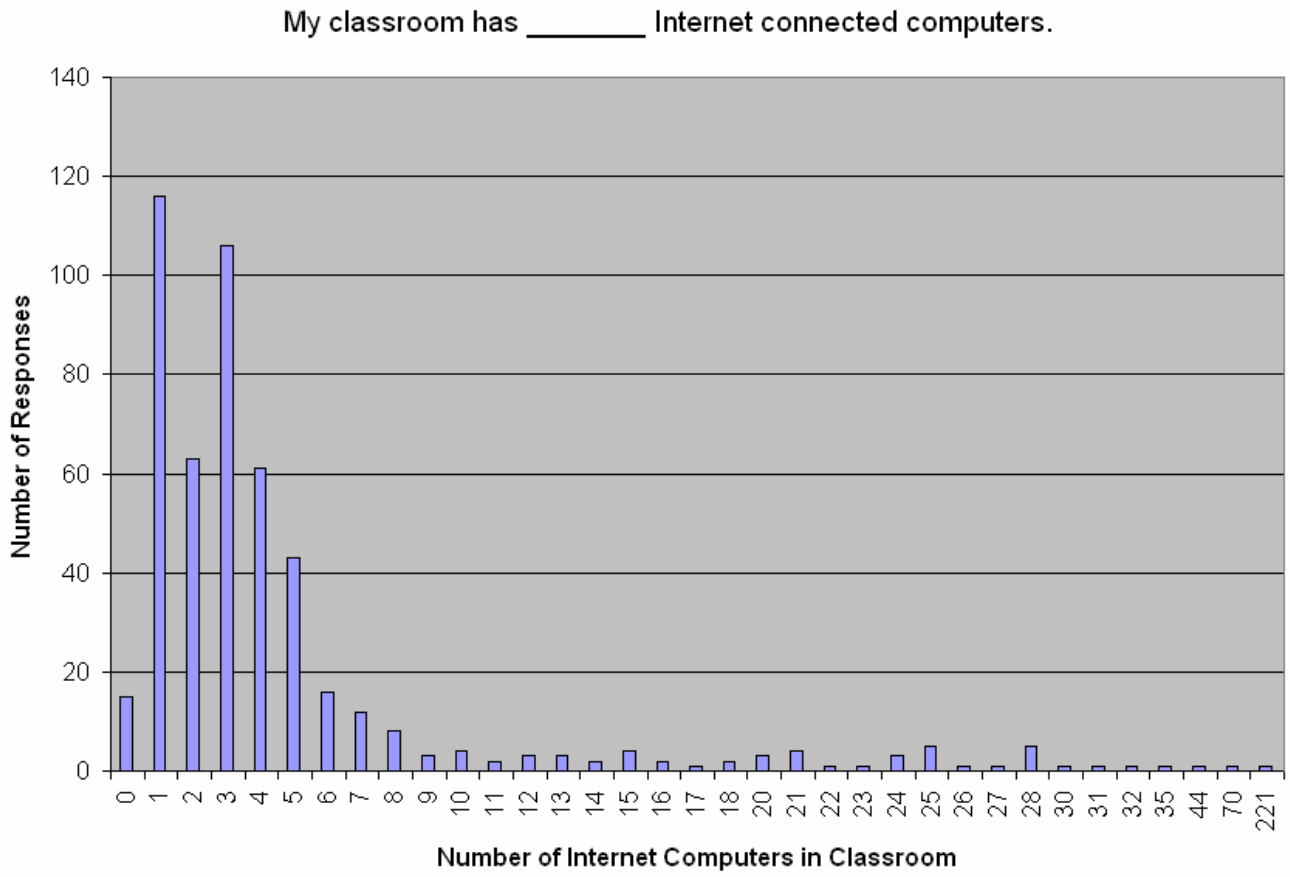
3. At the end of this school year, how many years of teaching experience will you have? (Enter whole years only, enter 1 or 2 digits.).

Teaching experience ranged from one to over forty years. A sizeable majority of the teachers had at least 10 years experience. This experience provides even more confirmation of the ability of the respondents to accurately assess the situation.



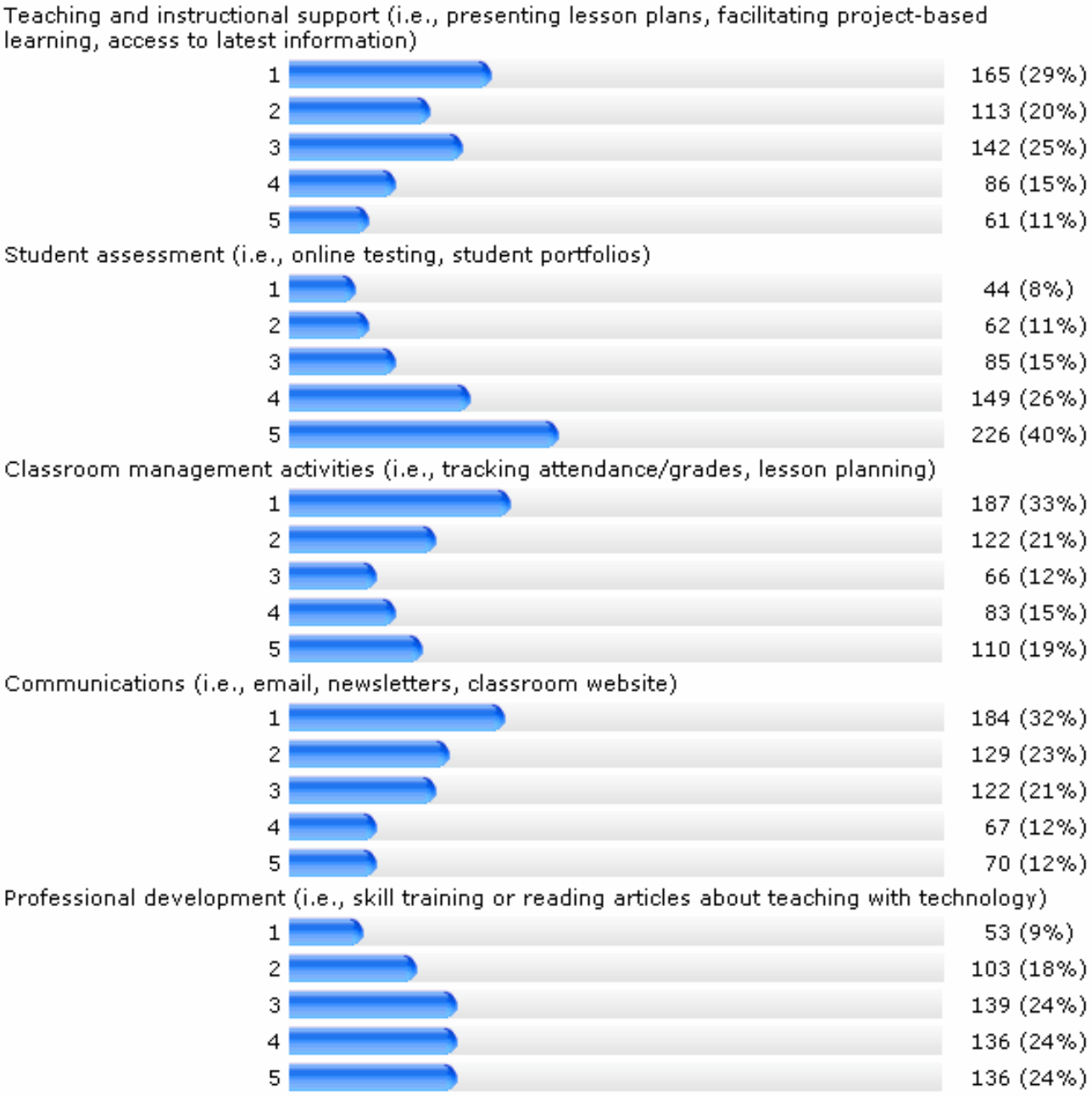
4. My classroom has ___Internet connected computers. I have regular access to a computer lab that is equipped with Internet connected computers.

The responses to these two queries indicate that the vast majority of the respondents have internet connections in their classrooms, but only a few have more than five with the most having three of less. But the majority did indicate they had regular access to a computer lab that is equipped with internet connections. The small number of classrooms with more than a few computers available creates a problem of student access and use during regular classroom hours. While labs are available instruction will have to be driven by that availability and not by appropriate curriculum sequencing.



5. In which areas of your professional responsibilities has technology had an impact? (Rank order; assign 1 to the highest and 5 to the lowest.)

Teachers use technology for the full range of their professional responsibilities. "Classroom Management Activities" and "Communications" are the highest ranked with "Teaching and Instructional Support" not far behind. "Student Assessment" and "Professional Development" rank well below the other uses. These results indicate significant room for expanded use of technology by teachers. The two highest ranked activities are the least interactive and learning based. The fact that professional development ranked at the bottom provides an indication for expanded use of technology for maintaining teacher competency.

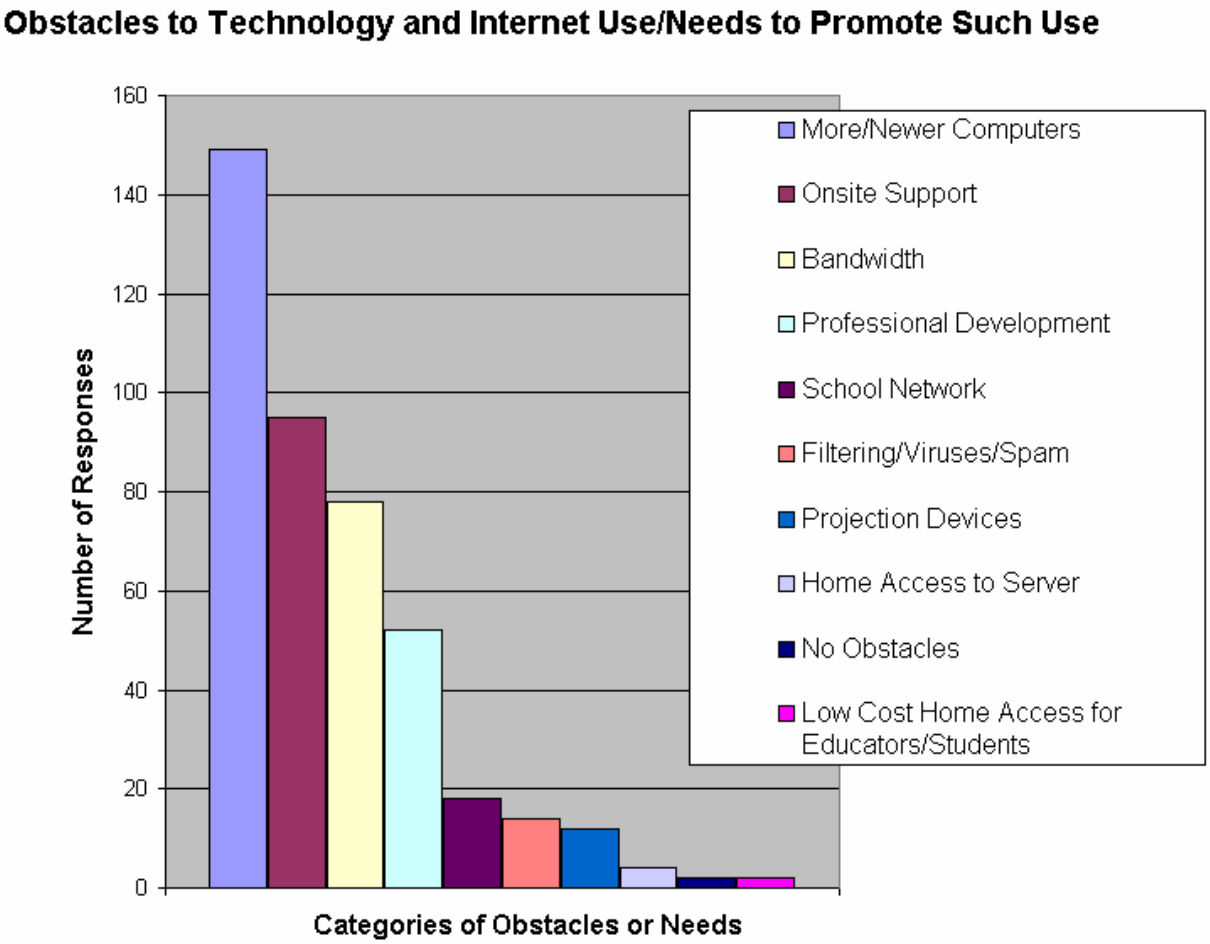


6. If you have encountered obstacles in the use of technology and the Internet at school or home what suggestions do you have for overcoming them?

The responses of the teachers are provided in full in Appendix A. The following is a summary of those responses as graphed below. By far the greatest problem is inadequate and obsolete equipment and software. There was a prevalent complaint about lack of access due to insufficient computers in the classroom and inability to obtain adequate time in the computer lab. This was compounded by the slowness of many systems and the amount of network down time. The dated machines and programs often made it impossible to use the materials available. The lack of adequate and properly trained support staff was also a very prevalent and frustrating

problem. lesser problems related to the need for greater bandwidth and for additional professional development.

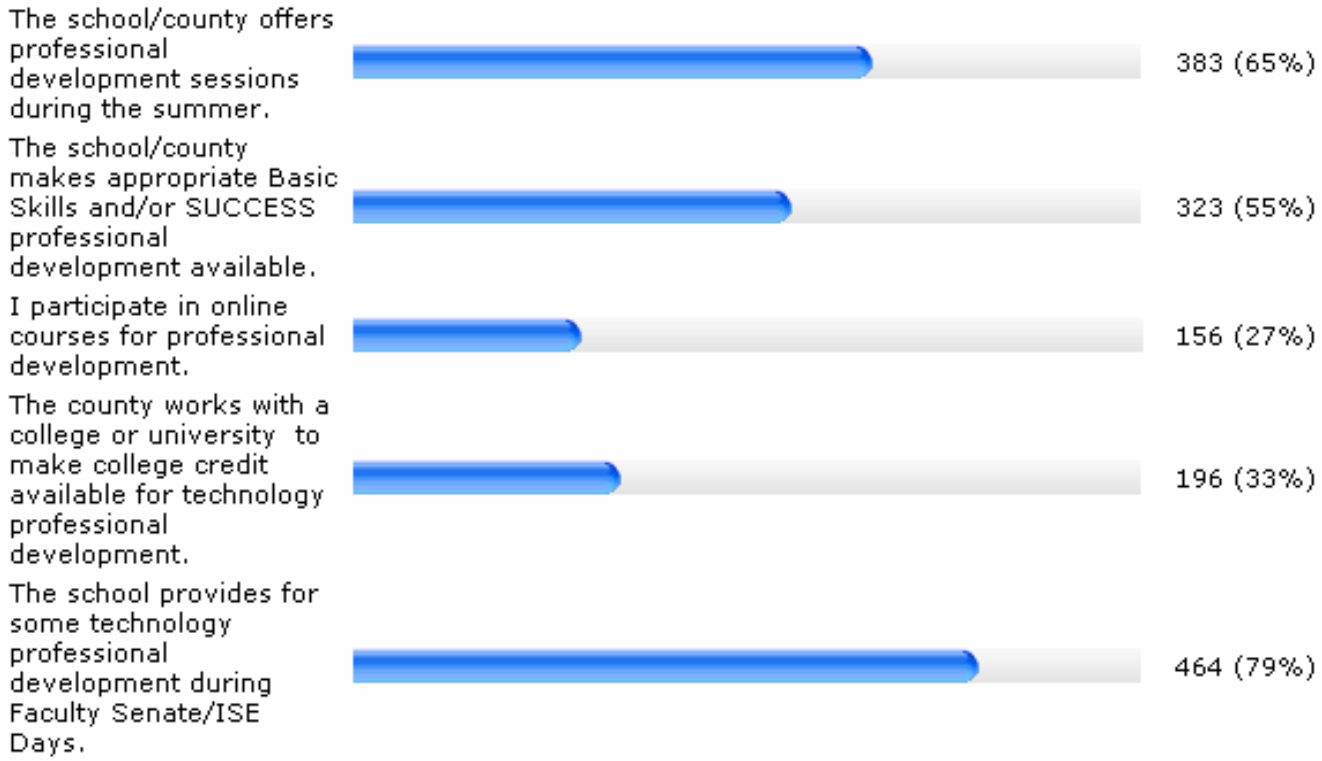
Regarding professional development, many respondents indicated that they had neither sufficient time nor training to use the technology available. Many commented that they were swamped with new technology without time to learn it and even when they were trained the technology either was not available or could not be run on their classroom or home systems. What is clear is that the mere presence of computers and computer labs in no way equips the schools to prepare students in the use of technology.



7. How are you given the opportunity to participate in technology focused professional development at the school or district level?

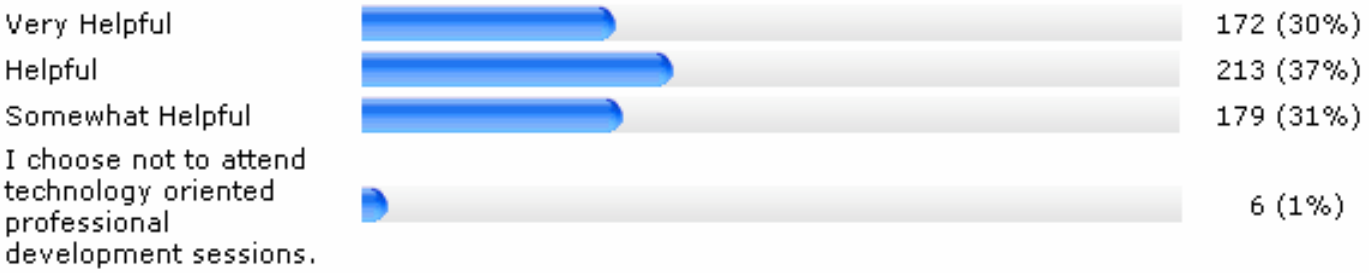
Two thirds of the teachers indicated the school or county offered professional development programs during the summer. This leaves a gap of one third of the teachers who do not have that opportunity. Only slightly more than half indicated they had available appropriate Basic Skills and/or Success professional development available. Almost half of the respondents did not have available to them the programs needed to improve their technology skills. Only about one quarter use on-line professional development. This may be due to either it not being available or to teacher

choice as to how they receive instruction. Only one third were in county's working with colleges or universities for professional technology development, indicating an area where expansion should be encouraged. On the positive side almost 80 percent had professional development programs in technology available during faculty senate or ISE days.



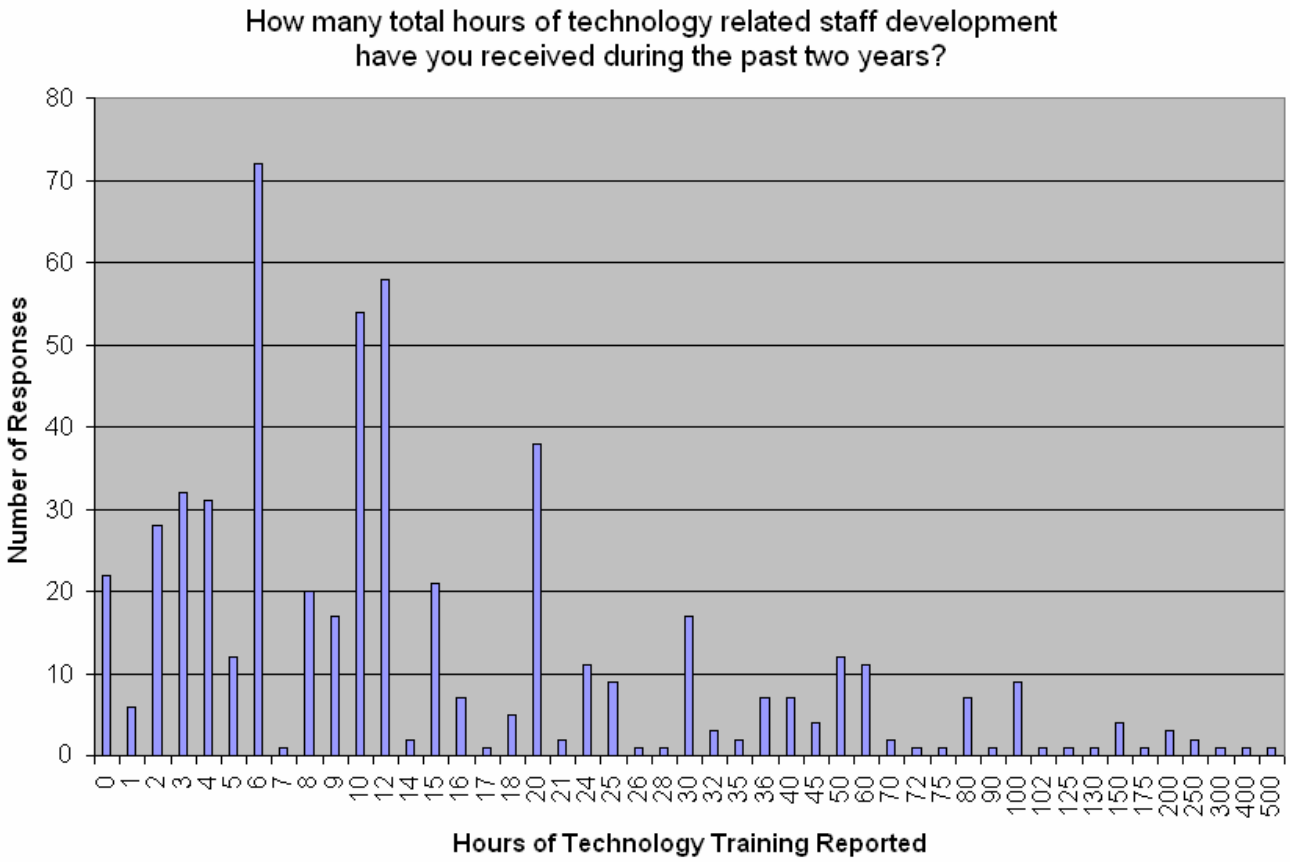
8. At what level do you find these sessions to be helpful in your integration of technology and/or the use of technology for professional tasks?

The almost unanimous opinion of the respondents was that the training received was at least somewhat helpful. There does appear to be room for improvement as only 30 percent found the programs "very helpful". Further inquiry needs to be made as to the type of programs which produce the most positive responses and use these as models for future offerings.



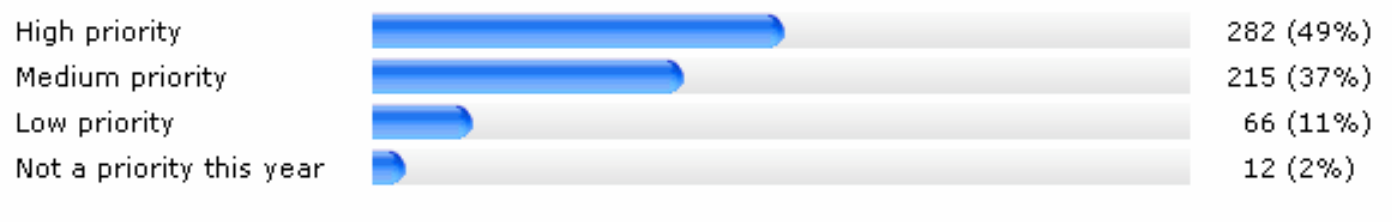
9. How many total hours of technology related staff development have you received during the past two years?

Around half the respondents had received 12 or fewer hours of technology related training in the last two years. Almost a third had received six or fewer. This amount of training is not sufficient to keep teachers abreast of programs or applications. For teachers with little or no technology background the amount of training is clearly insufficient.

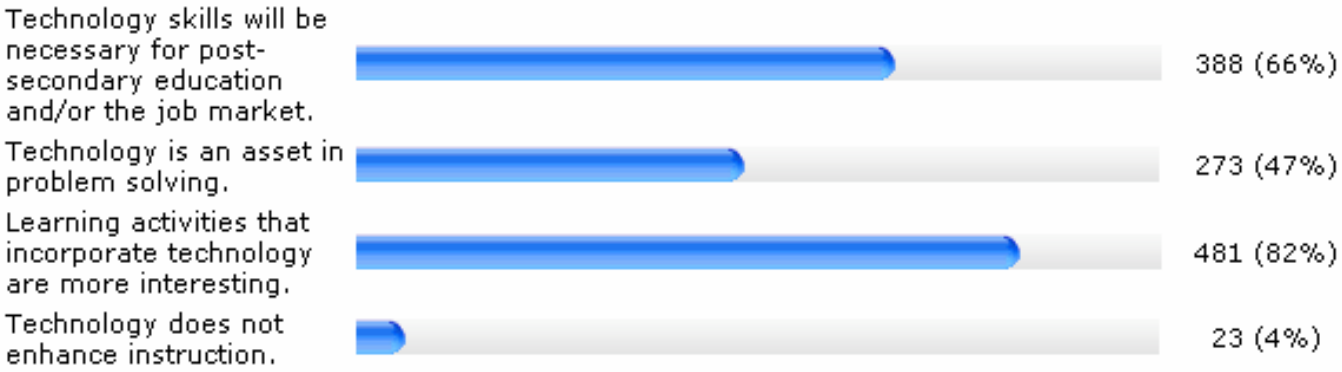


10. How does effective use of technology rank as a priority for your school administrators this school year?

Almost half of the respondents indicated that technology was a high priority with only 13 percent indicating it was low or no priority. This indicates a strong commitment to technology among administrators. The question remains as to how that commitment will be realized in practice.



11. Which of these statements describe your perception of student attitudes toward technology? From the responses it is obvious that students view technology as being important as well as making instruction more interesting. Student attitudes do not appear to be a barrier to use of technology in the classroom.



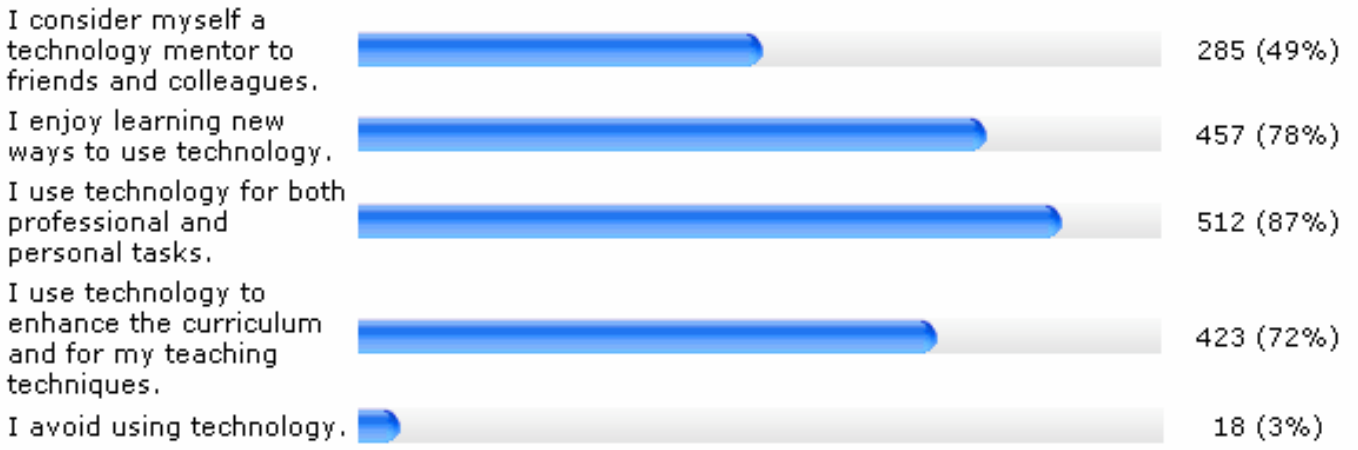
12. How do you view the use of technology in meeting state and federal accountability requirements?

Over 90 percent view technology as being positive in meeting accountability requirements. This accountability will take two forms; 1) Demonstrating that students are achieving at the proper level due to the results of using technology in instruction and 2) The ability of teachers to better document activities and results.

13. Which of these statements describes your use of technology?

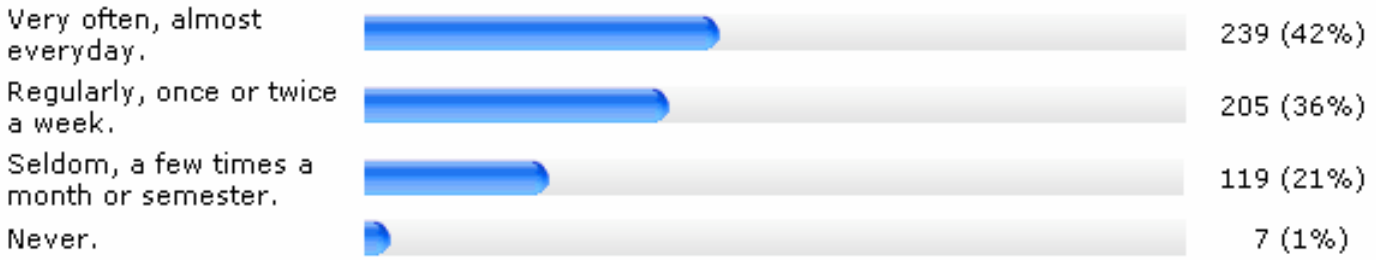
Respondents not only use technology but enjoy acquiring new technology based skills. Almost three quarters use technology in the classroom and half consider themselves to be technology

mentors to other teachers. This data strongly indicates that teachers are not only capable, but are employing technology in their personal and professional lives. It is to be anticipated that little resistance to expanded use of technology will be encountered from teachers.



14. How often do you use technology for instruction?

While gratifying that over 40 percent of respondents use technology every day, it is disappointing that 22 percent seldom or never use it for instructional purposes. These students are clearly being left behind. Even those students in the classes of 36 percent of the respondents who use technology only once or twice a week are not being as completely educated in technology as are their peers. This lack probably relates to the problems of access discussed above in question 6.



15. If you were designing a new school which of these would be most important for teachers to have?

The overwhelming responses to what should be in a "new school" reflect the frustrations the teachers have with their current situations. By far the most important element would be "adequate technology maintenance and support" followed closely by "onsite staff person to help with technology". Other areas of higher priority (but not ranked one or two) were faster internet connections throughout the school and new computers for every teacher. As has been indicated in the responses to other questions, the greatest problem with using and teaching technology is insufficient support.

Fast Internet access throughout the school

Wireless access to the Internet

A new computer for every teacher

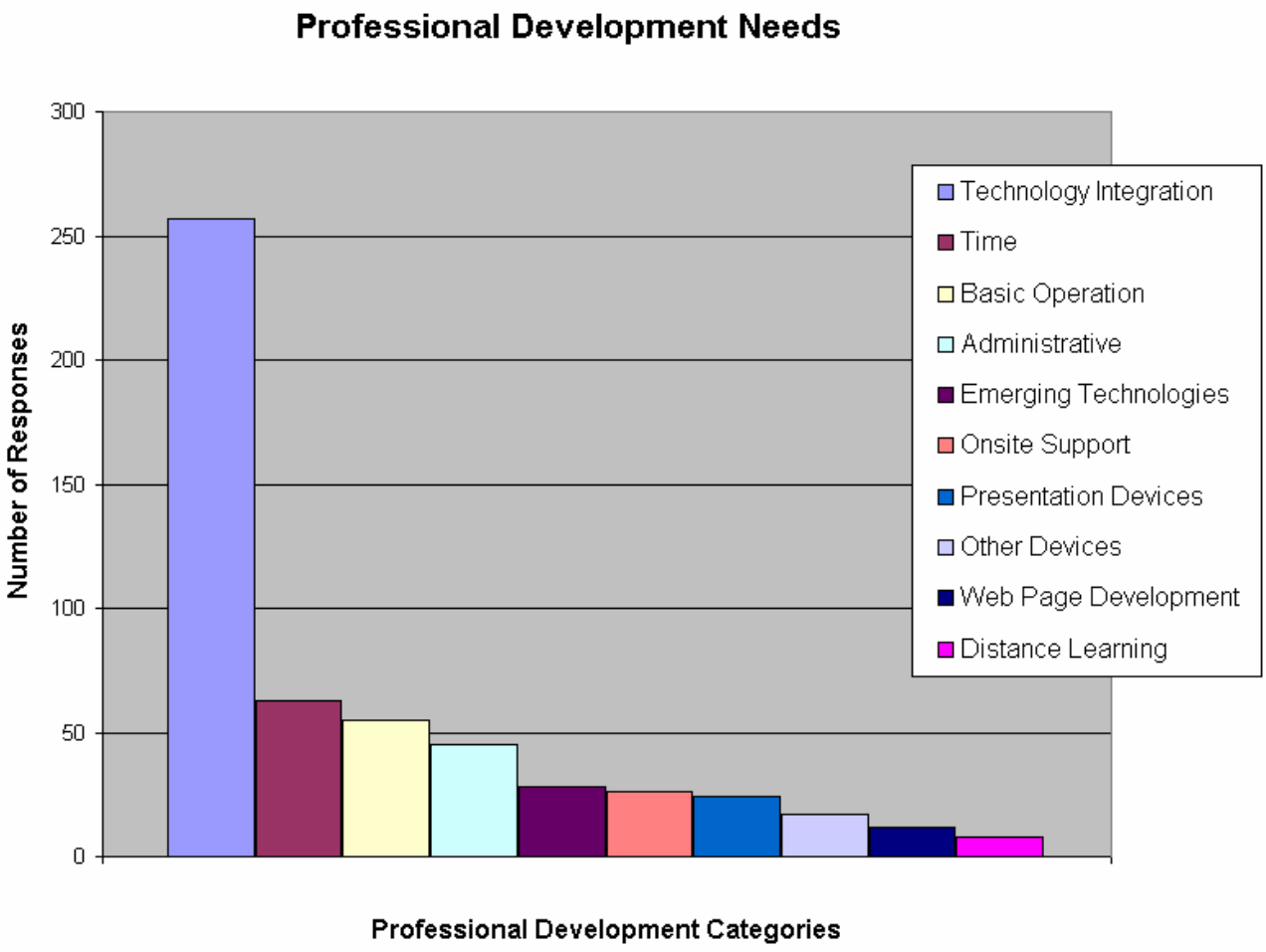
A computer lab, open on weekends and evenings

An onsite staff person to help with technology

Scheduled release time for learning with technology

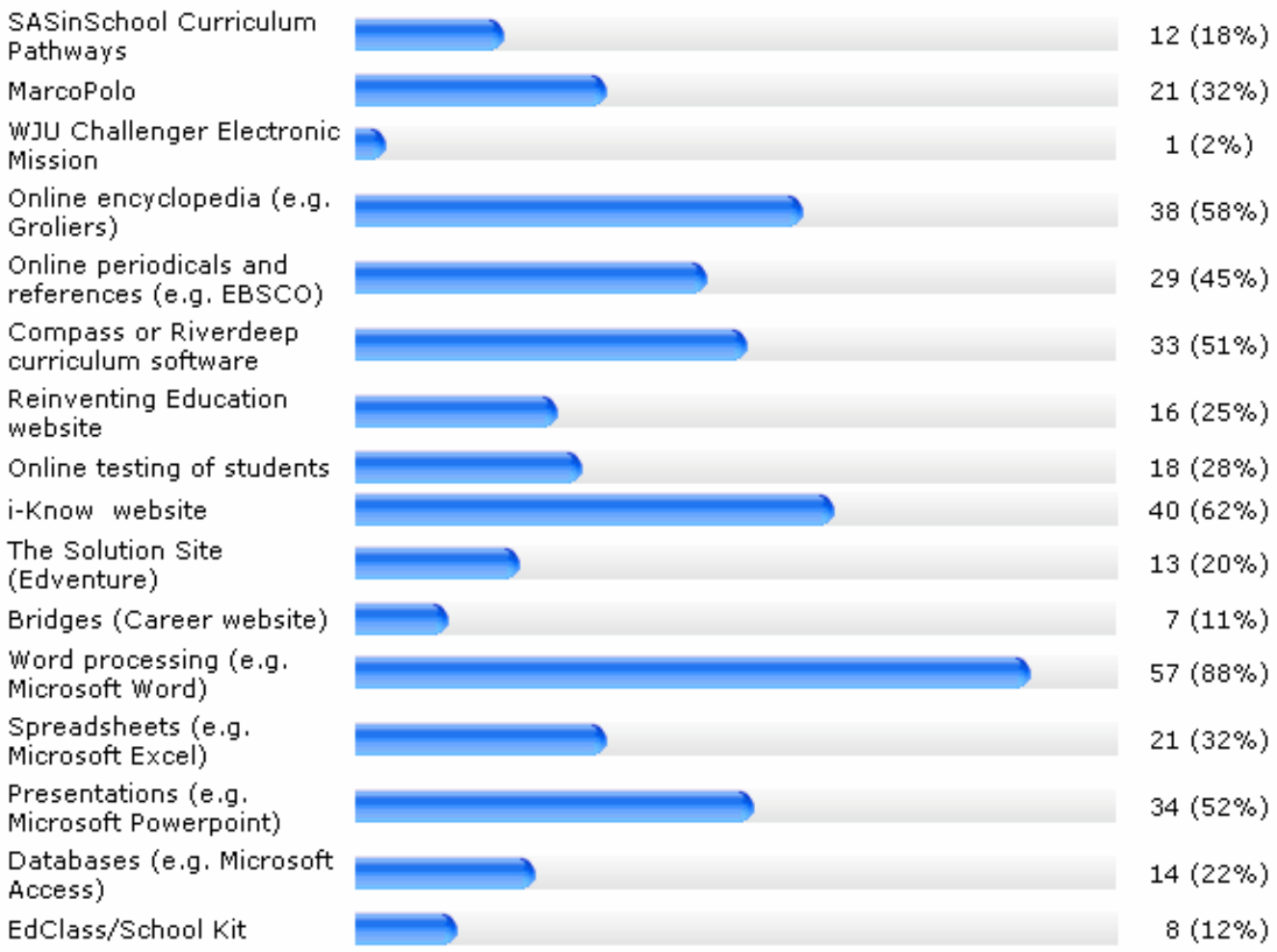
16. List your top three professional development needs.

The individual answers from each respondent are provided in Appendix B. For easy reference they have been classified into 10 groups of responses. Of those ten "technology integration" is by far and away the greatest perceived need. This is consistent with answers given to other questions which revealed that teachers want to know how to apply technology to the subject matter they are teaching. Having this knowledge will make the technology meaningful to the students as they can see relevance to the subject matter being studied. This would make the class more meaningful and interesting for the students. In summary, tools are necessary but not sufficient for effective technology education, application is equally important.



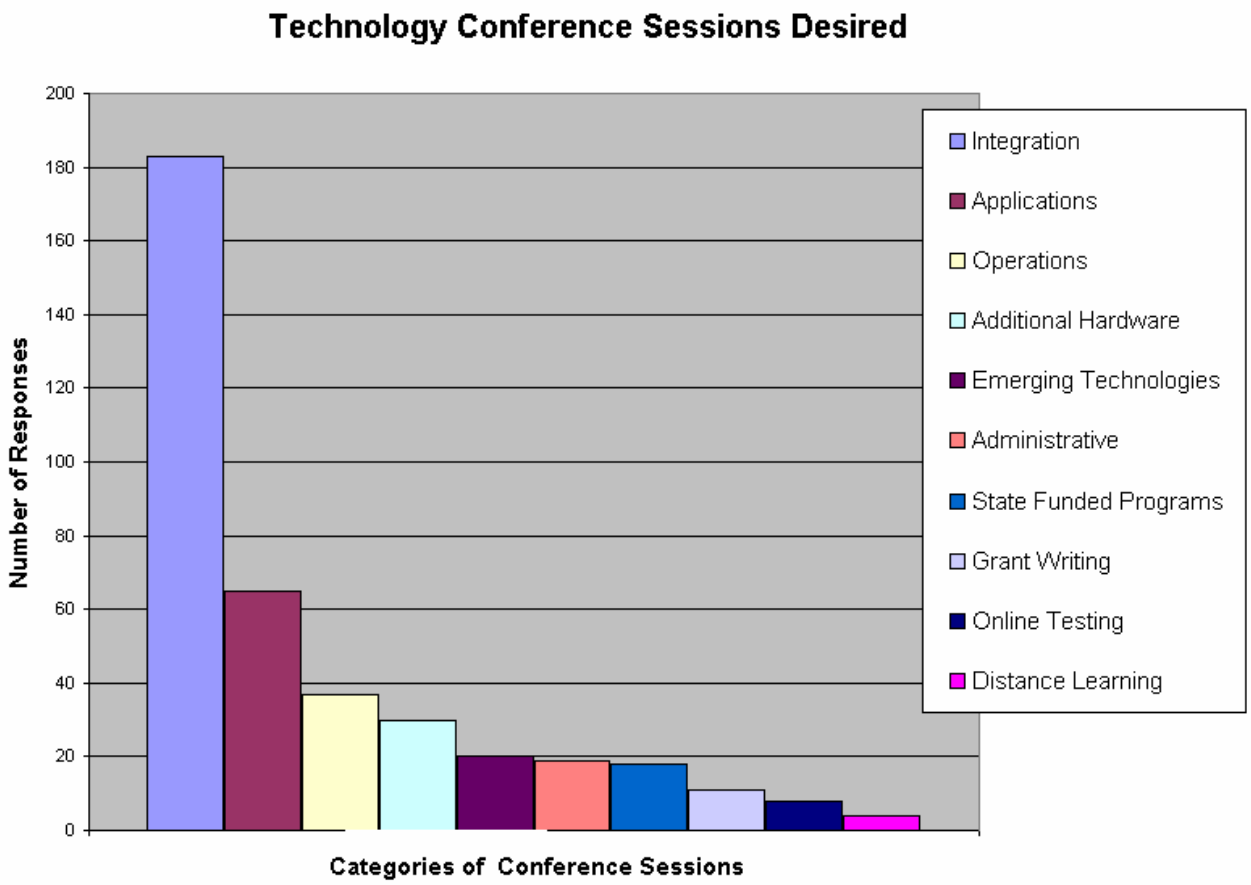
17. Which of the following technologies have you or your students used this school year?

The most widespread use of technology involved word processing with almost 90 percent involvement. Research is the second most common employment but the use is around 60 percent covering various technologies (online encyclopedia, online periodicals, i-Know website). PowerPoint is also included in about half of the replies. More advanced and venturesome technologies have not been widely used. This may be due to a lack of familiarity by teachers with these or the inability of the school's computers to handle the programs. A particular lack is training in spreadsheets and data bases.



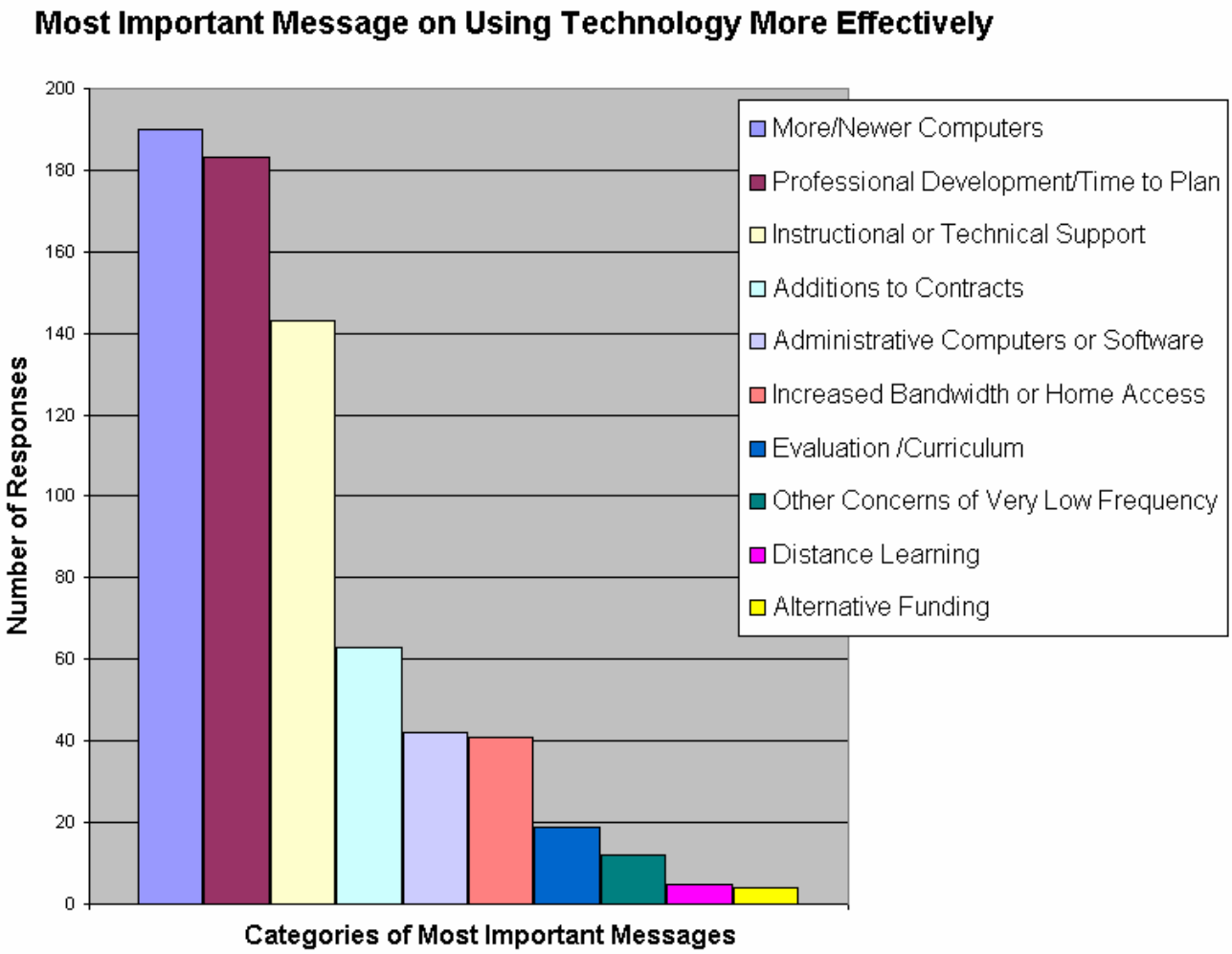
18. If attending a technology conference what topic would you most like to see presented?

The answers to this question provide a firm direction for future teacher training in technology. The responses have been summarized under 10 categories. It is clear that respondents seek more enlightenment about how to integrate technology in the grade level or subject area they teach. A second request is for more training in applications. While there is limited support for other forms of training, these two areas should receive major emphasis. The responses of the teachers are in Appendix C.



19. What is one thing you would like to tell West Virginia's First Lady, Gayle Manchin, about how we can help you use technology more effectively?

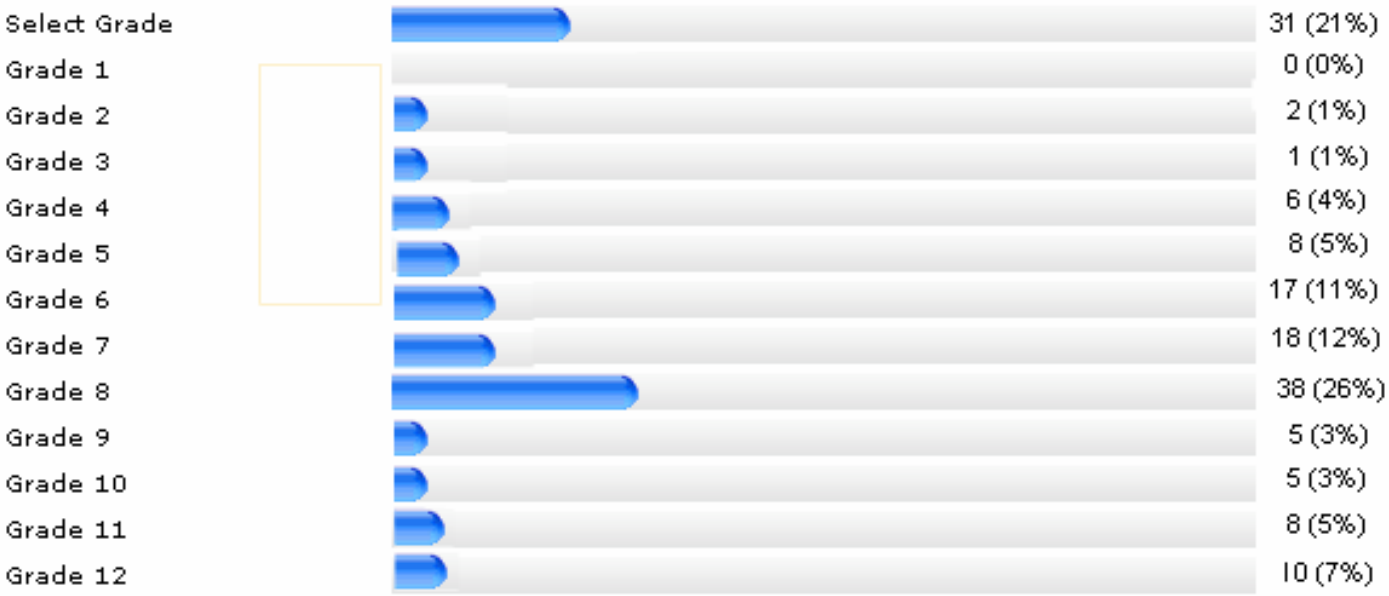
The answers to this query are consistent with the other results of the survey. The greatest request would be for more and newer computers. In reading the individual answers (See Appendix D), it again becomes apparent that the lack of classroom computers and the inability of the older computers to handle more advanced programs and major obstacles to effective technology education. Professional development and the time to plan ranked a very close second reflecting the problems teachers have in knowing how to integrate and apply the technology which is available. Also ranking high was the need for technical and instructional support. The lack of support staff and instructional technologists has been well documented before. As the teachers note, this leads to extensive downtime and inability to count on the technology being available when needed or planned.


Most Important Message on Using Technology More Effectively
Number of Responses
200
180
160
140
120
100
80
60
40
20
0
Categories of Most Important Messages
More/Newer Computers
Professional Development/Time to Plan
Instructional or Technical Support
Additions to Contracts
Administrative Computers or Software
Increased Bandwidth or Home Access
Evaluation /Curriculum
Other Concerns of Very Low Frequency
Distance Learning
Alternative Funding

STUDENT SURVEY

1. What grade are you in?

A sizeable percentage of the student respondents did not indicate a particular grade. The largest single representation was grade 8 accounting for slightly more than one quarter of the respondents. The only other sizeable representations were from grades 7 and 6. These statistics indicate that the results may only be significant for middle school students and can not be considered representative of all grade levels.



2. In a typical week, which of these technology products do you use during normal school hours?

The only technology product with significant student use appears from the responses to be the desktop computer. There are several technologies with limited use (laptops, cell phones, digital cameras, video game player and text messenger). It is not clear if these were used in the classroom as part of the curriculum or used for pleasure during breaks or lunch periods. In any case it appears that use of technology in the classroom is well confined to a single technology.

3. In a typical week, which of these Internet tools do you use during normal school hours?

There were a variety of internet tools used by the students with bookmarked websites, game sites and search engines being the only ones used by half or more of the respondents. It can be questioned as to what extent on-line game sites were used for instructional purposes. It does appear that student use of the internet is relatively limited, but probably appropriate for instructional level.

4. Thinking about the other students at your school, do you consider yourself. . .

Over three fourths of the students considered themselves to be an average user compared to other students. Only a small minority (9%) considered themselves below comparative average.

5. How do you usually find out about new technologies and websites and how to use them?

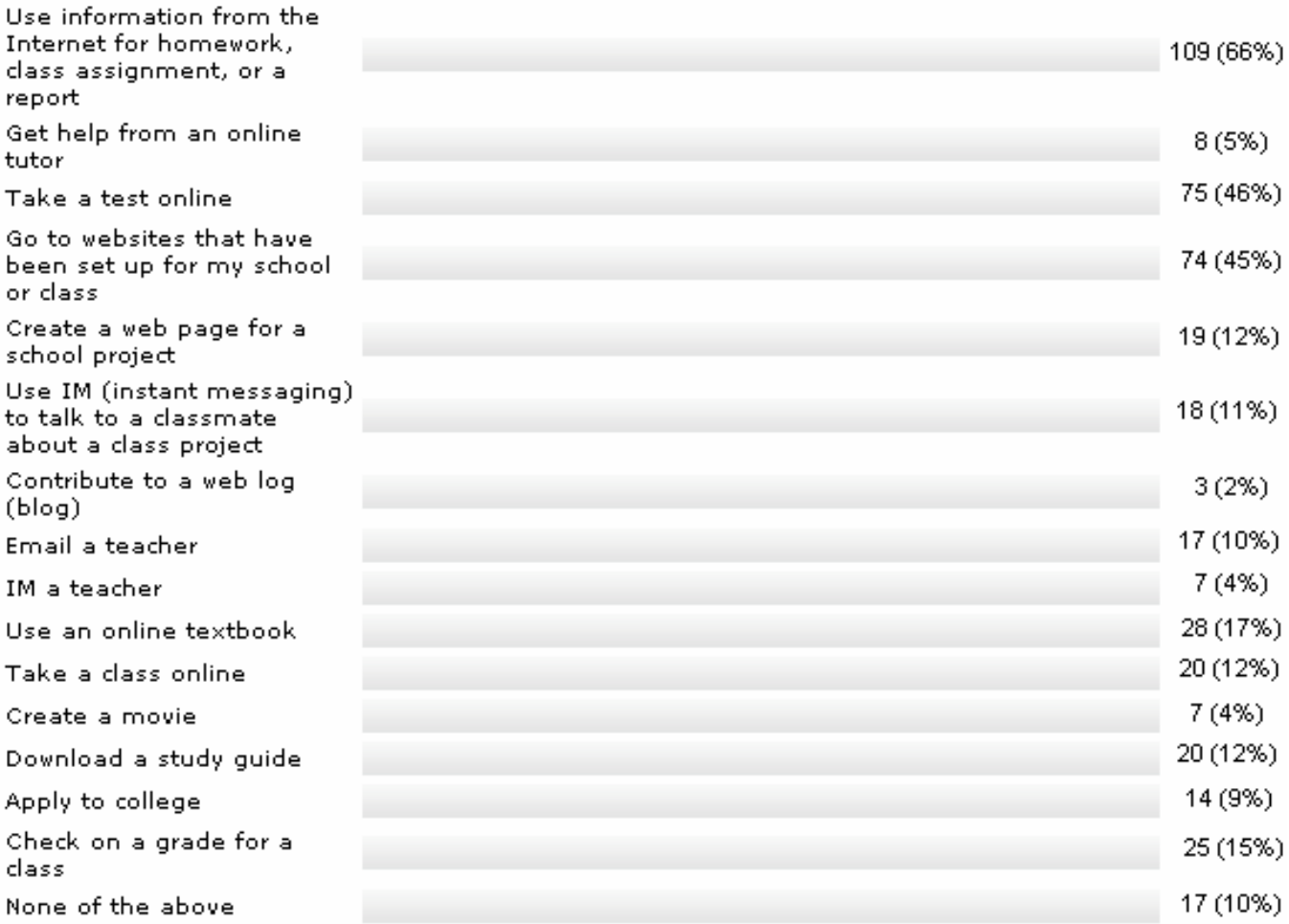
Student response indicates three primary sources of information: teachers/classes in school, friends, and self exploration. Since friends are the dominate information source this reveals a level of networking which is typical of most technology intensive enterprises. The fact that only 28 percent listed school as their primary source for information indicates increasing emphasis in these areas may be appropriate.

6. When you are using technology to help with your schoolwork, where are you most likely to be?

Over fifty percent of the respondents indicated that home was where they used technology to help with their schoolwork, while 37 percent indicated the place was school. This response raises a major question. Are those students who do not have access to computers and/or the internet at home being disadvantaged compared to their peers who do? Also do the problems with computer access in the classrooms noted in the teacher's responses limit the achievement of those who must depend primarily on school based technology?

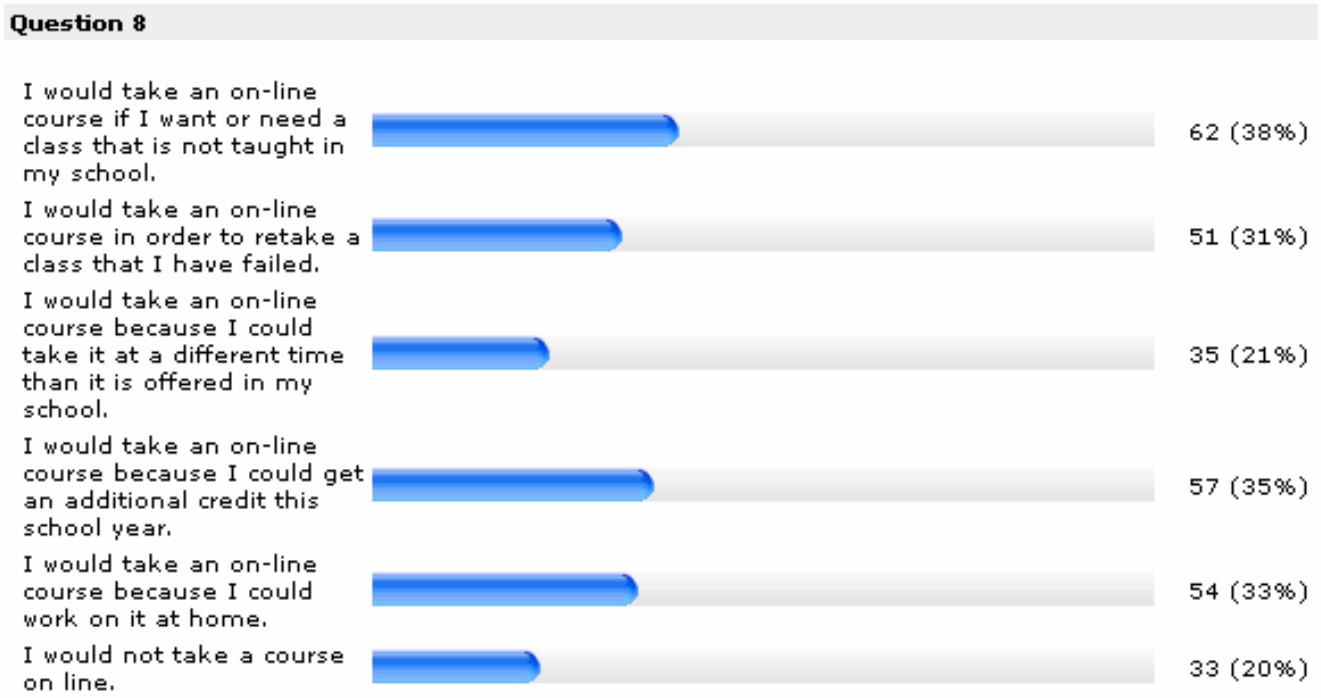
7. Which of these activities do you expect to do online this year during normal school hours?

Two thirds of the students responded they would go on-line to obtain information related to class work. Substantial minorities expected to take tests on-line and to go to school/class established websites. Other possible uses elicited only sporadic responses. This indicates that technology's on-line use is being primarily limited to traditional activities and student usage could and should be expanded.



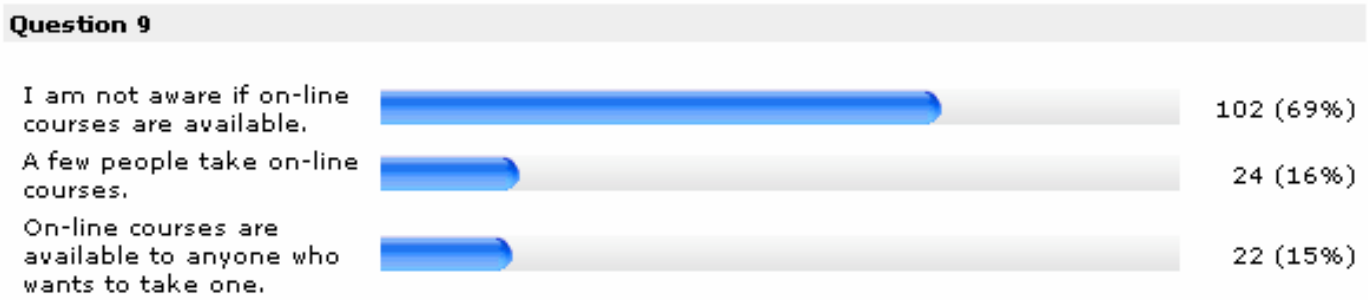
8. Which statements best describe your interest in taking on-line courses?

Taking courses on-line appeals only to about one third of the students irregardless of the motivation for being enrolled. Twenty percent of the students indicate no interest at all in on-line instruction. This may reflect a lack of familiarity or availability with on-line instruction, past bad experience, inadequate preparation or incompatibility with the student's preferred learning style. It could be anticipated that acceptance of on-line courses will grow as more and better designed classes become available, but there should be no expectation in the near future that on-line instruction will replace the teacher-student interaction which takes place in the classroom. Research demonstrates that effective on-line instruction, particularly for younger students, still requires considerable interaction between student and instructor.



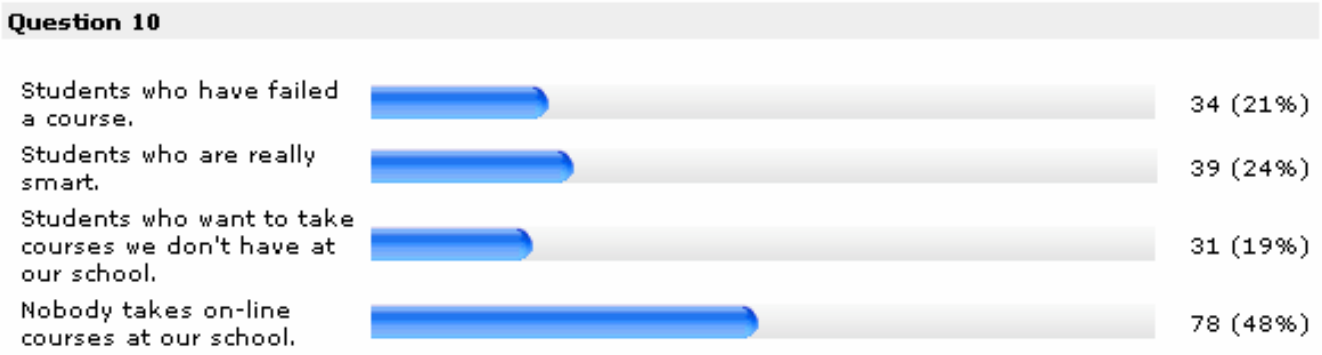
9. How available are on-line courses in your school?

From the responses it is clear that on-line courses are not widely available at least for the students covered in the survey. Almost 70 percent were not aware of any on-line courses being available. Only 15 percent felt that on-line courses were available to anyone who wants to take them. This may explain, in part, the less than enthusiastic responses to question 8 regarding student interests in on-line courses. If they are not available it is unlikely that students will have any interest in taking them. An expansion of well designed and highly interactive on-line courses with appropriate teacher support may be warranted. This may be particularly true for enrichment and other classes not available in the student's classroom setting.



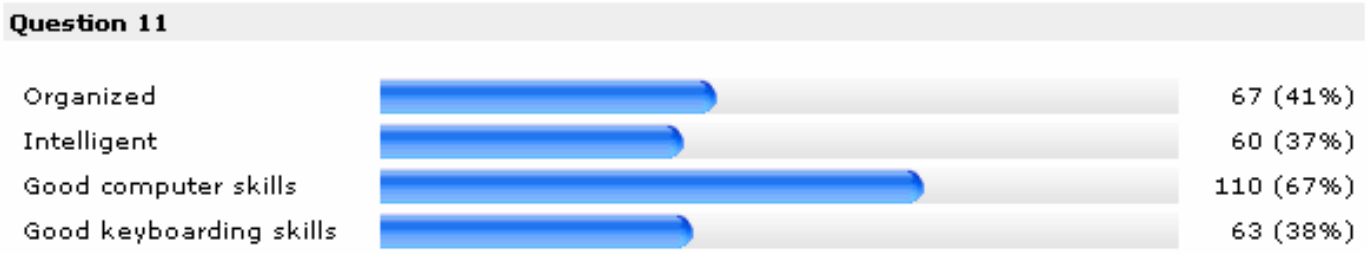
10. Who do you think takes on-line courses in your school?

Almost half reported “nobody takes on-line courses”. This is not surprising given the lack of availability of on-line instruction noted in question 9. Responses regarding other reasons were almost evenly divided among students who “failed a course”, “are really smart” or “want to take courses we don’t have at our school”.



11. What qualities and skills should a student have in order to take a course on-line?

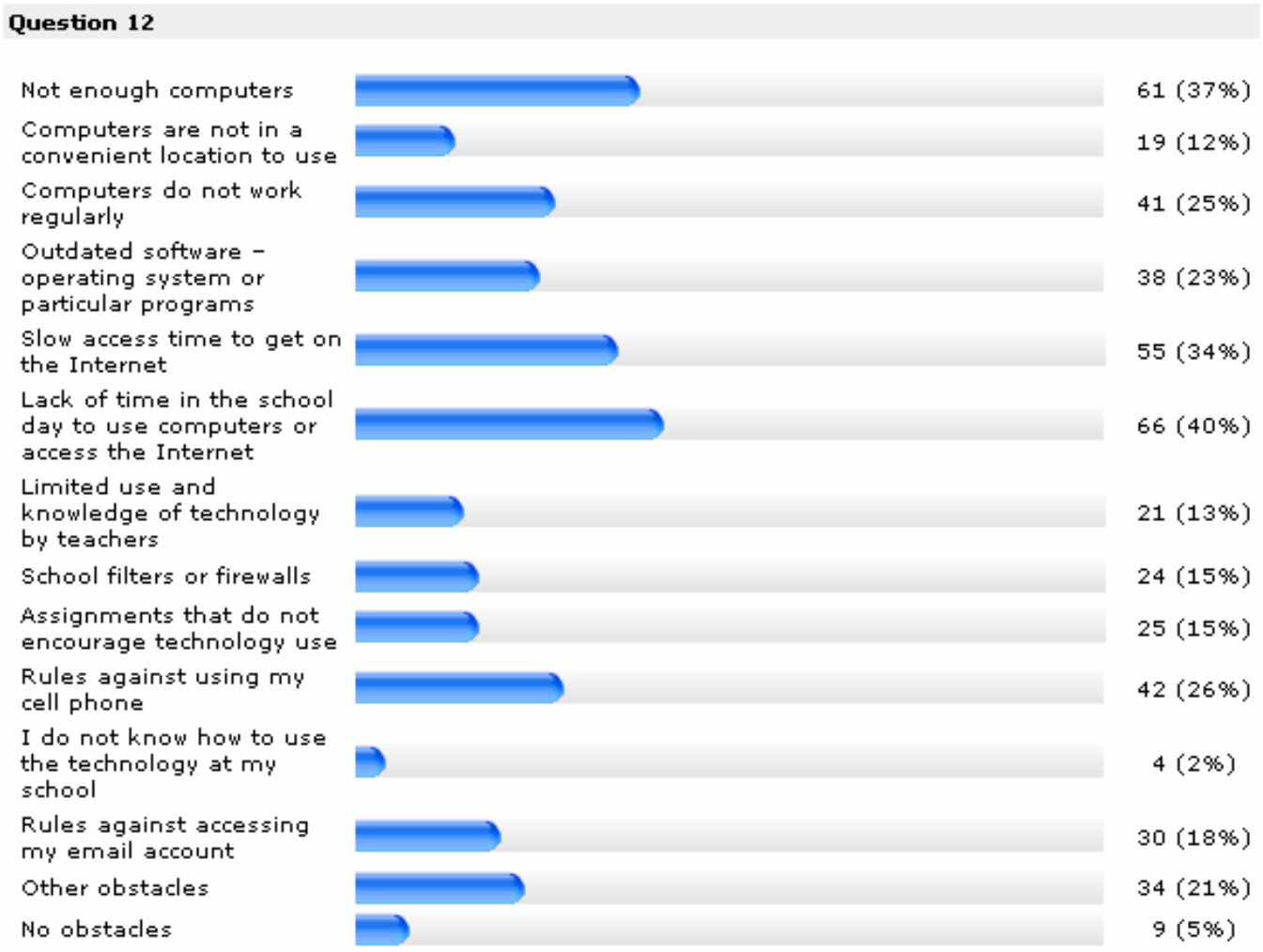
Two thirds of the respondents indicated “good computer skills”. It is not clear from the wording of the answer what this answer includes. What are the computer skills that are needed? One skill is mentioned in a separate response “good keyboarding” which was viewed positively by almost 40 percent of the students. A more detailed investigation with more in-depth questions appears appropriate.



12. What are the main obstacles you face in using technology at your school?

Responses varied with no single obstacle dominating. There appears to be a disconnect between the perceptions of students and those of teachers regarding the nature and significance of the obstacles. While insufficient numbers of computers was listed by 37 percent of the students, it does not appear to be as big a barrier as one would have expected from the teacher responses which ranked it near the top. When taken together, the complaints about the internet, slow access time, and lack of time to access appeared to be the most troublesome area. Less than a quarter of the students viewed outdated software or programs as a problem, while teachers saw it as a major hindrance. This may be due to students not being aware of what is available and/or instructors

"teaching around" the problems created by obsolete systems and programs. Only a small minority of students evaluated either their technical capabilities or those of their teachers as being of significance.



13. Does your school have a formal program (a class, club or after-school activity) where students help with technology use or problems?

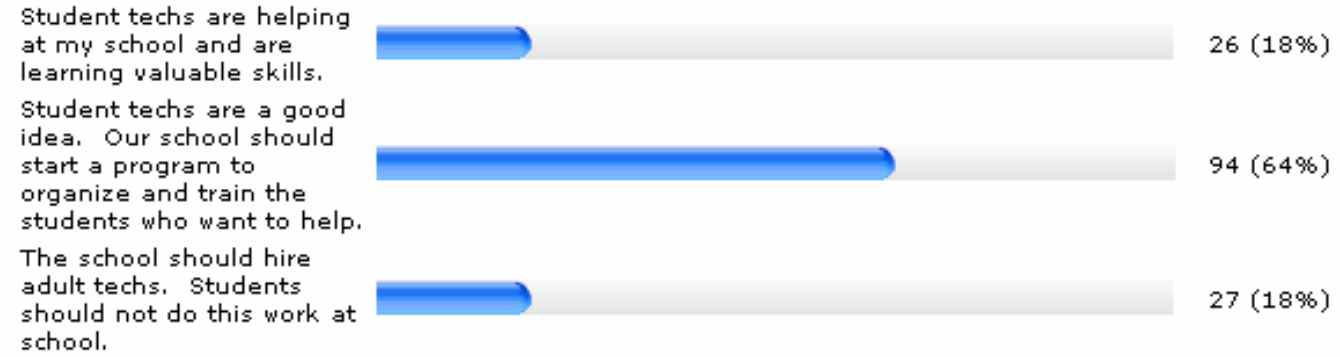
It is surprising and troublesome that the most frequent response was "not sure". This can be interpreted as either not available or poorly promoted. Only one third of the students reported the presence of these activities. These can be important ways for students to learn and to teach each other. Considering that most students indicated in the question that their friends were a valuable source of information regarding technology, expansion of these activities would be profitable. It is entirely possible that responses to this question would have been different if more high school students had participated in the survey.

Question 13

14. Which statement best describes your feelings about students providing technology support services at your school?

Almost two thirds or the student respondents felt this was a good idea and the school should train students with an interest in technology. An additional eighteen percent were in schools where student technologists were being used and learning valuable skills. Only a minority of 18 percent did not embrace the concept. While there may be limitations on the skills which students can be taught at various ages, this may prove to be a partial solution to the lack of adequate technical support cited by the respondents to the teacher survey as a major problem.

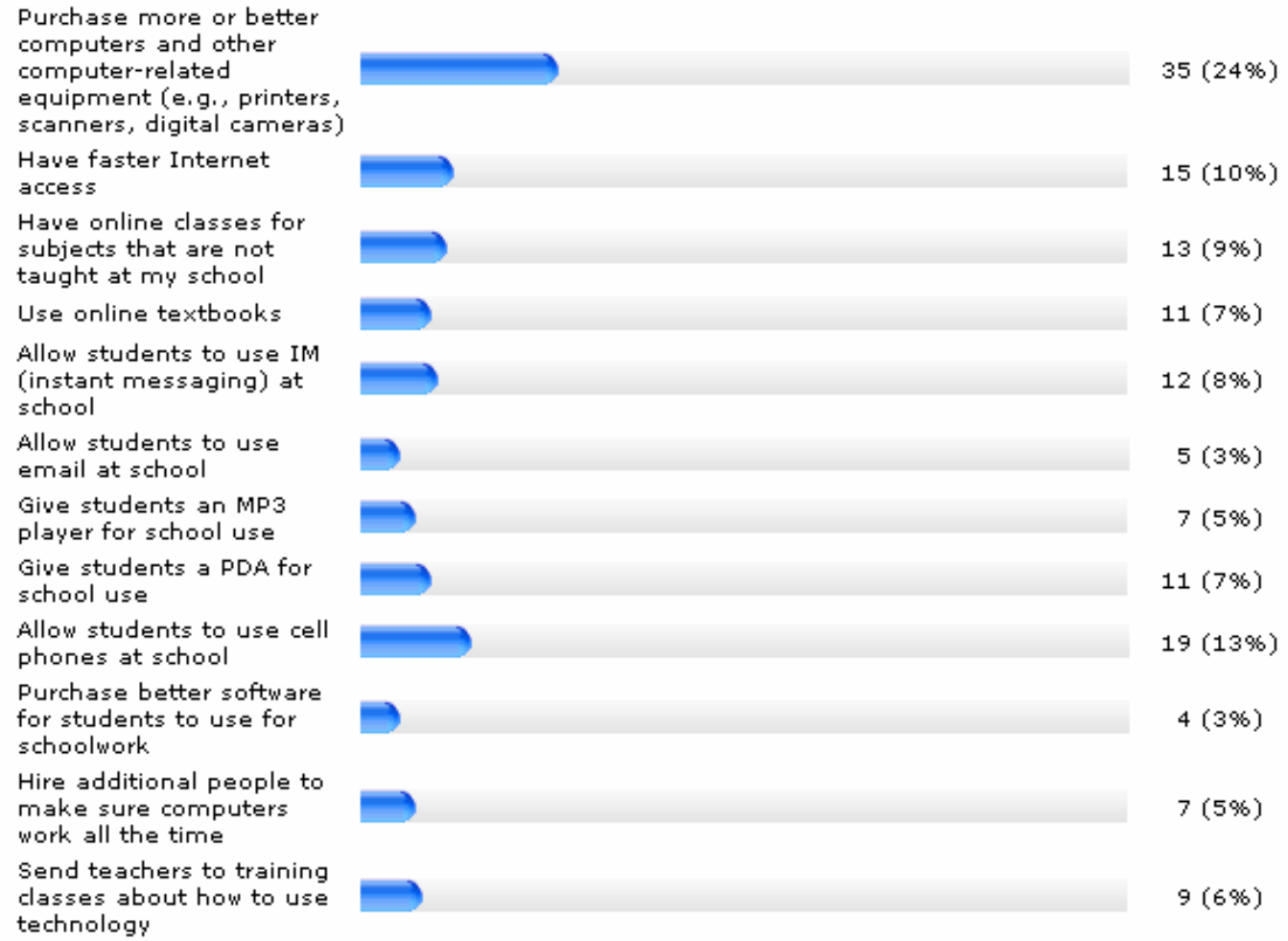
Question 14



15. If you could change one thing about how technology is used at your school today, what would that one thing be?

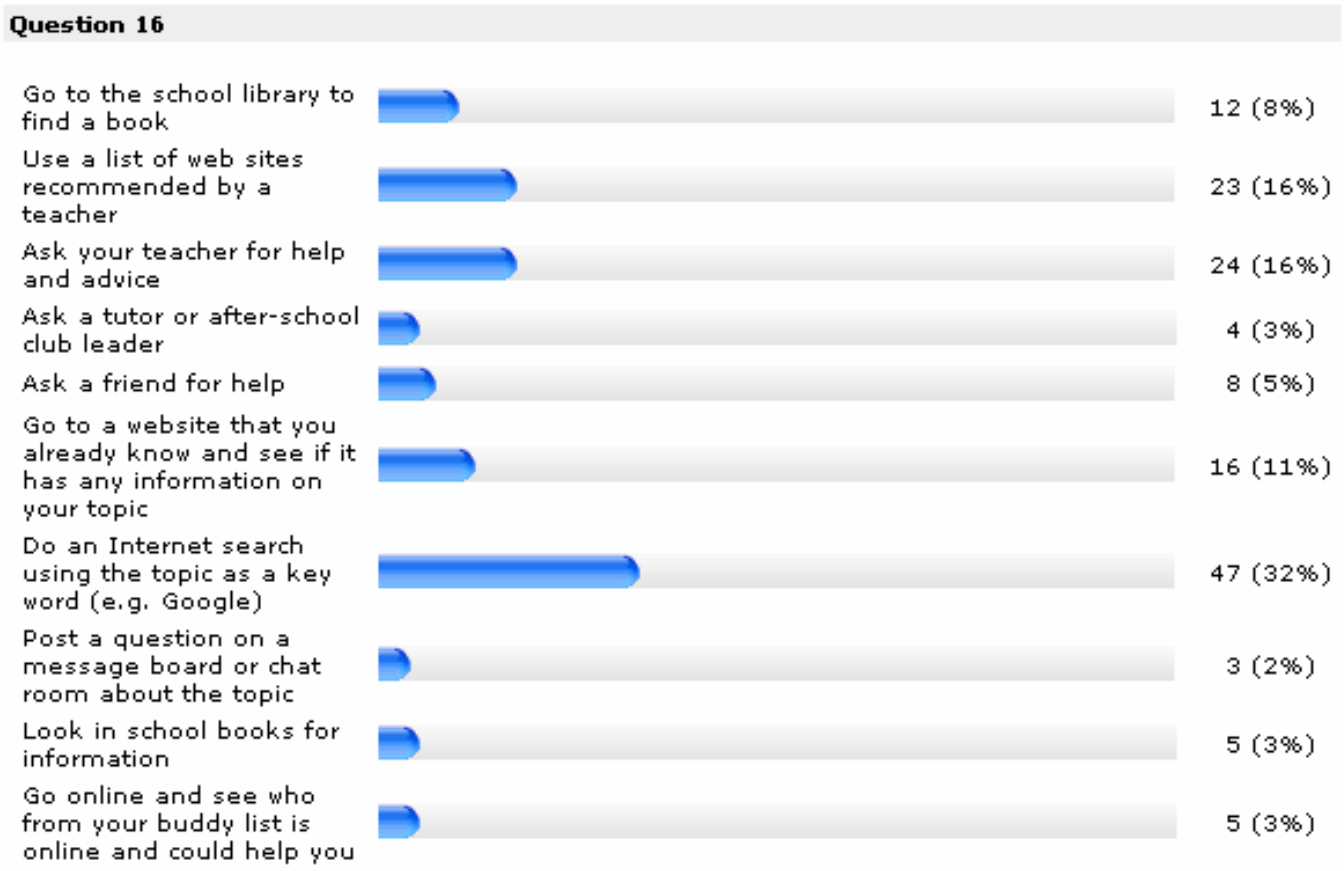
There is no dominant answer to this query. The most frequent response, cited by only 24 percent of the students, was for more and/or better computers and peripherals. The response given regarding faster internet connections given by only 10 percent of the students is not wholly consistent with the response in question 12. The vast majority of students do not feel their teachers lack appropriate training, but they are probably not in the best position to judge.

Question 15



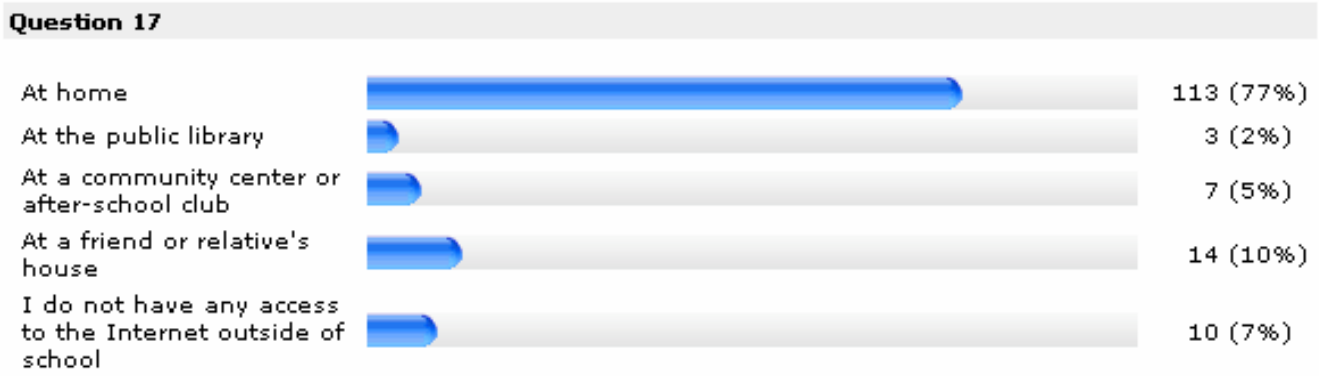
16. If you had to write a report or essay today about a topic that you knew little or nothing about, what would you do first?

The student responses indicate the most popular choices involve use of the internet. Although no one alternative has a response rate above one third, those involving use of the internet, over half would turn first to some form of internet inquiry. The answers do show that the more traditional forms of research such as use of the library have been replaced with technology.



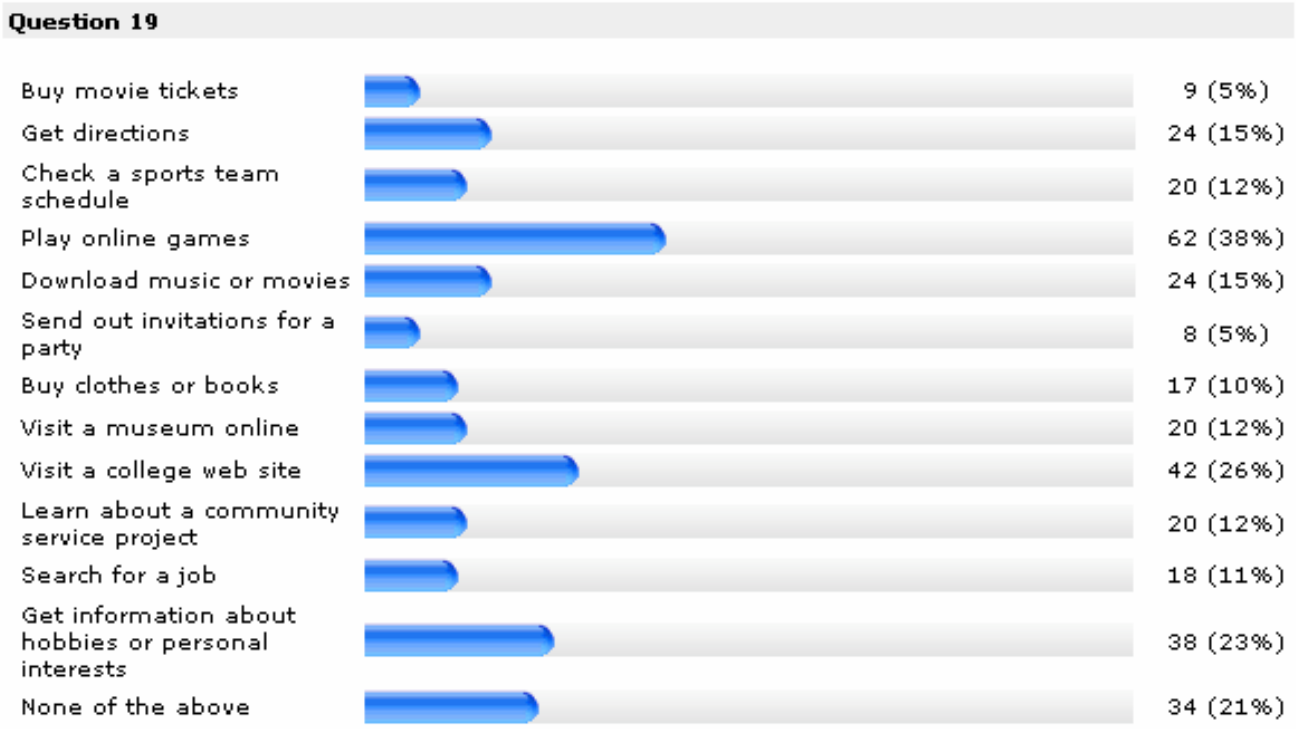
17. Outside of the school day, where do you usually access the Internet?

Over three fourths of the responding students indicated their access was at home. For the remaining respondents a variety of sources were used but 10 percent indicated no access at all. This result further asks the question about students without home access being left behind.



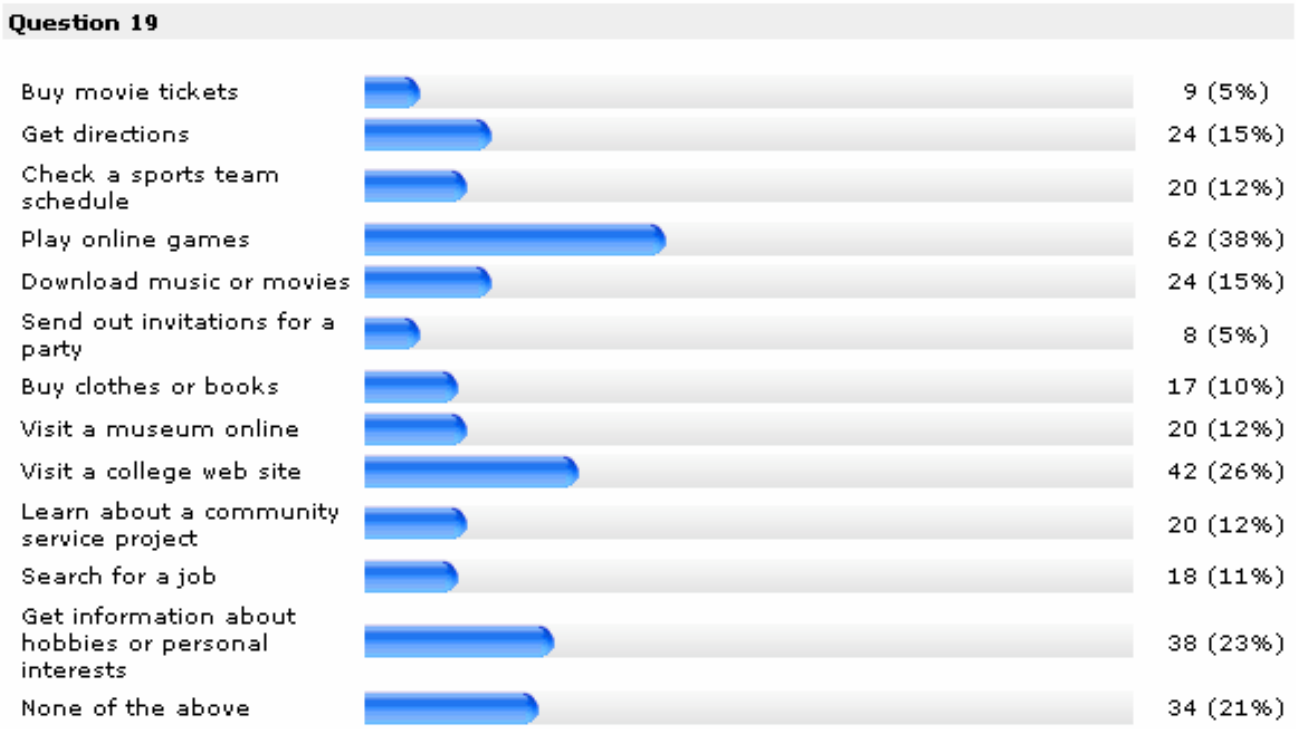
18. What do you like best about using technology to complete school assignments?

Students expressed many different "likes" about technology use although no single answer predominated. All involved increased efficiency in completing assignments. The answers provide evidence that using technology enhances learning.



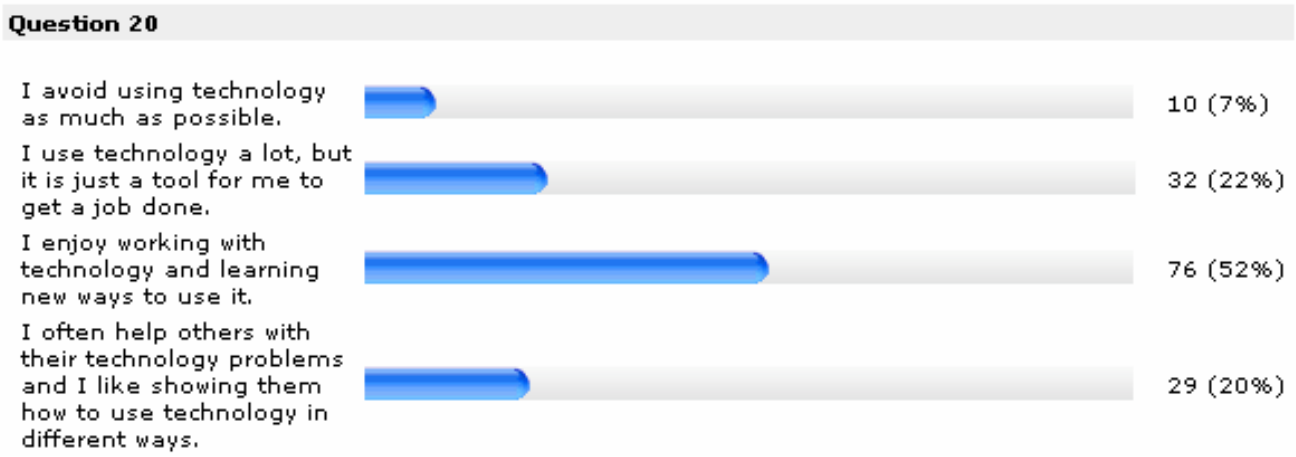
19. Which of these activities do (sic) you expect to do online this year during normal school hours?

Most of the options given the students do not relate to normal instructional activities but to personal interests. The possible exceptions are visiting a museum, learning about community service projects and visiting college web sites. Again no single activity dominates the student answers although "playing on-line games" with 38 percent had the greatest response. From these answers it does appear that during school hours students will be making use of technology for personal pursuits which may not be bad unless it is a distraction from using technology for school work.



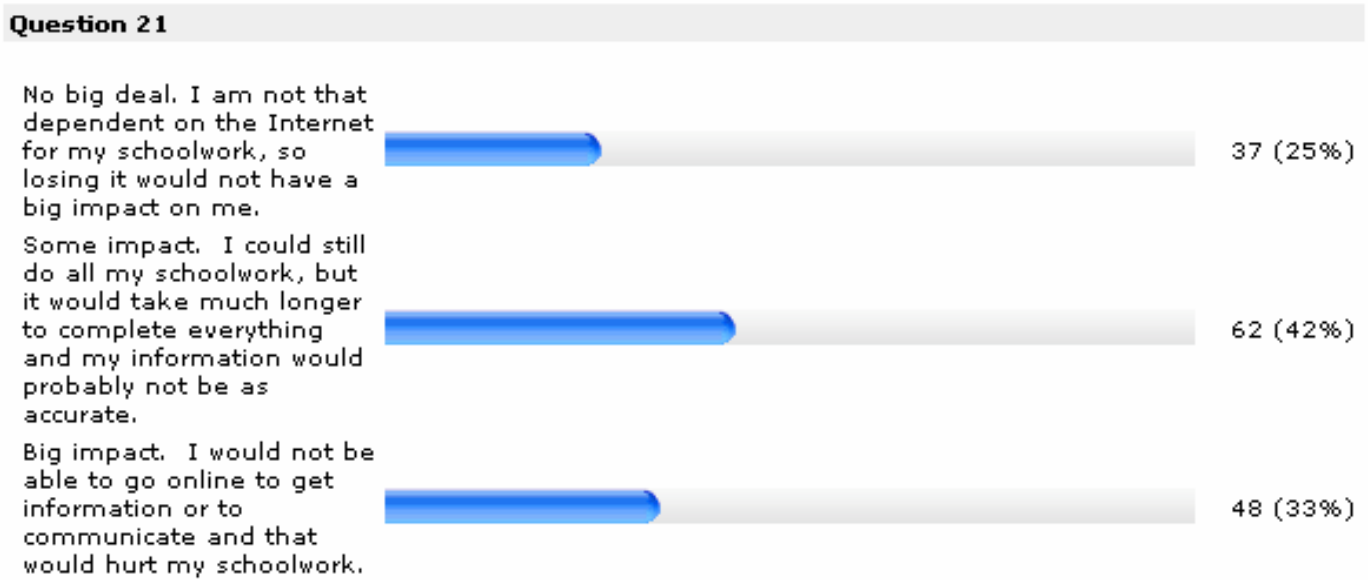
20. Which of these statements best describes your feeling about using technology?

With 52 percent of the respondents indicating they enjoyed working with technology and another 20 percent indicating satisfaction with assisting other students with technology issues, it is clear that these respondents feel positive and comfortable using technology. A mere seven percent indicated they avoid using technology. Assuming these results are typical, schools and they instructors are creating a favorable environment and attitude toward using technology.



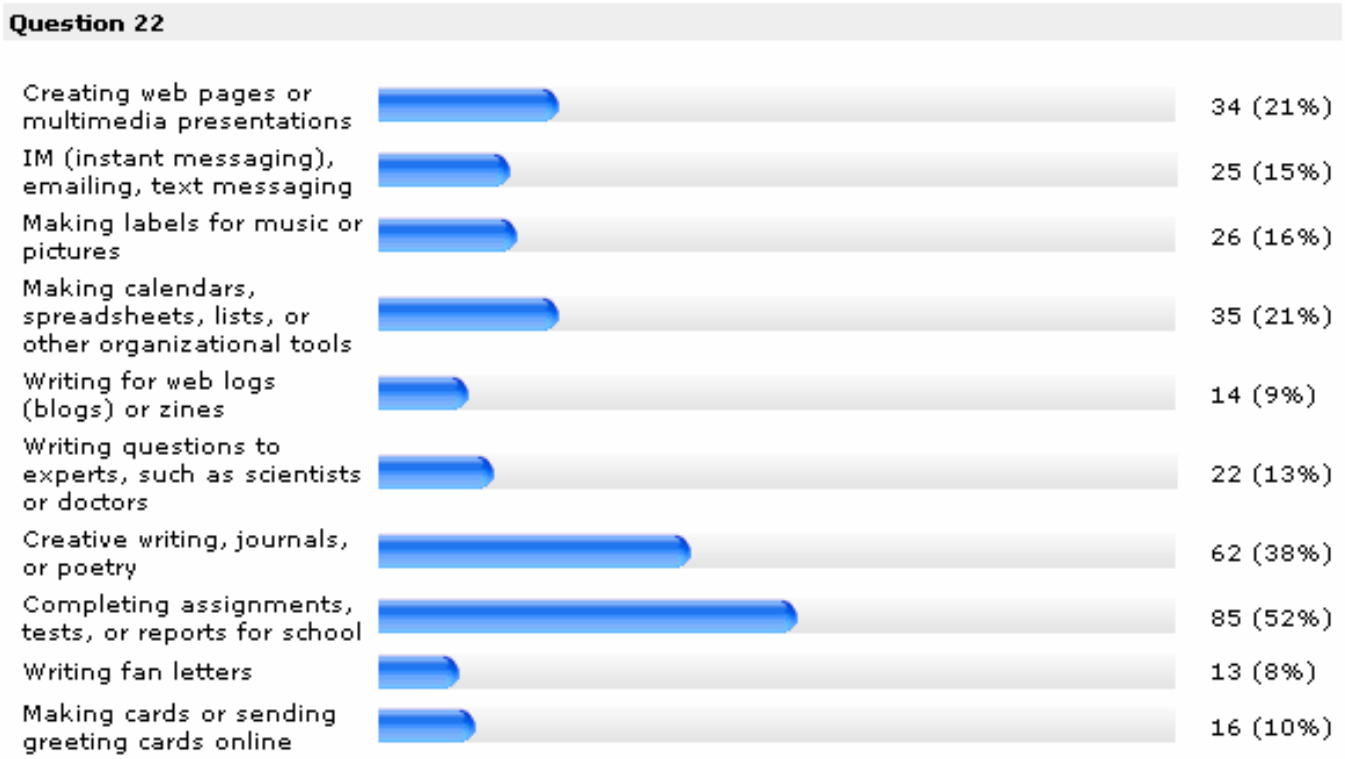
21. Imagine that you no longer had access to the Internet anywhere, what would be the impact on your schoolwork?

Over two thirds of the respondents indicated that it either would have no effect at all or would only force them to take more time to complete their work. About one third indicated that it would have a significant deterrent effect. This result can be interpreted as an indication that the use of technology has not become so fully integrated into the classroom that its use is essential.



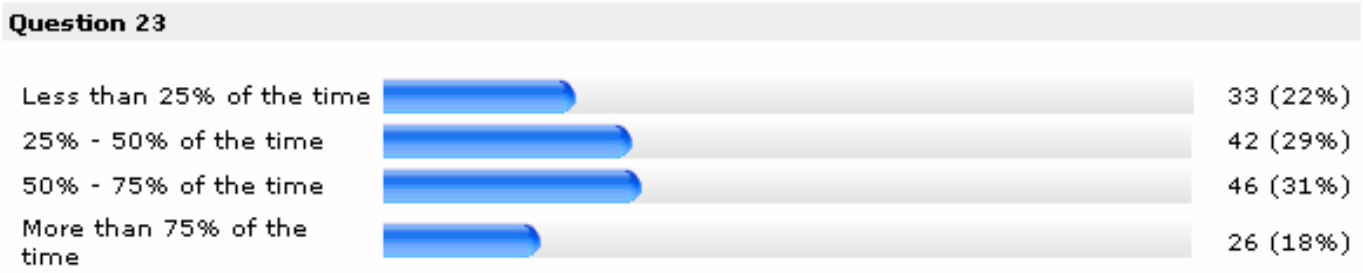
22. What types of writing do you use technology for during normal school hours?

The most frequent type of writing using technology in the classroom is to complete assignments with slightly more than half the students giving this response. The other uses with significant responses included creative writing, creating web pages and organizational tools. Technology appears to have a wide variety of classroom uses which is consistent with the familiarity students indicated they had with word processing.



23. When you are using technology, what percentage of the time are you writing something?

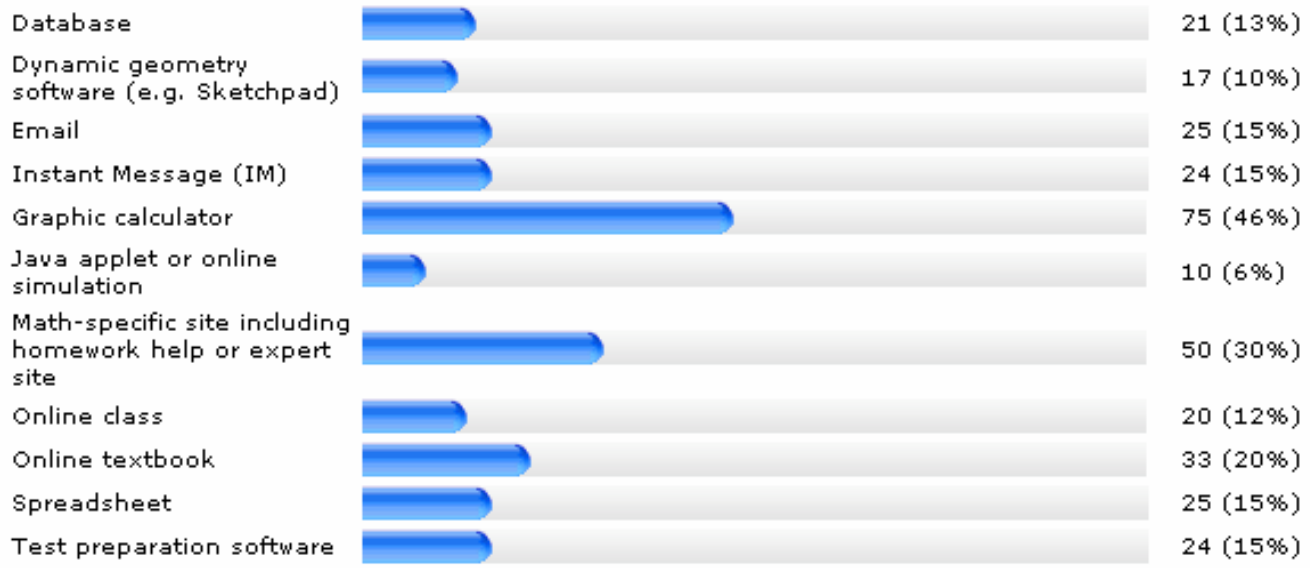
Sixty percent of the respondents indicated that writing consisted of between 25 to 75 percent of the time they used technology. Twenty two percent used it less than 25 percent and 18 percent used it more than 75 percent.



24. When you are doing math assignments or homework, which of these technologies are you most likely to use?

Almost half of the respondents indicated use of graphic calculators. No other use received was significant with the possible exception of math specific sites. There was little use of data bases or spreadsheets which is consistent with the earlier finding regarding instruction in these technologies. While this may reflect the age groups of most respondents, it does reveal a need for expanded instruction and integration in these programs.

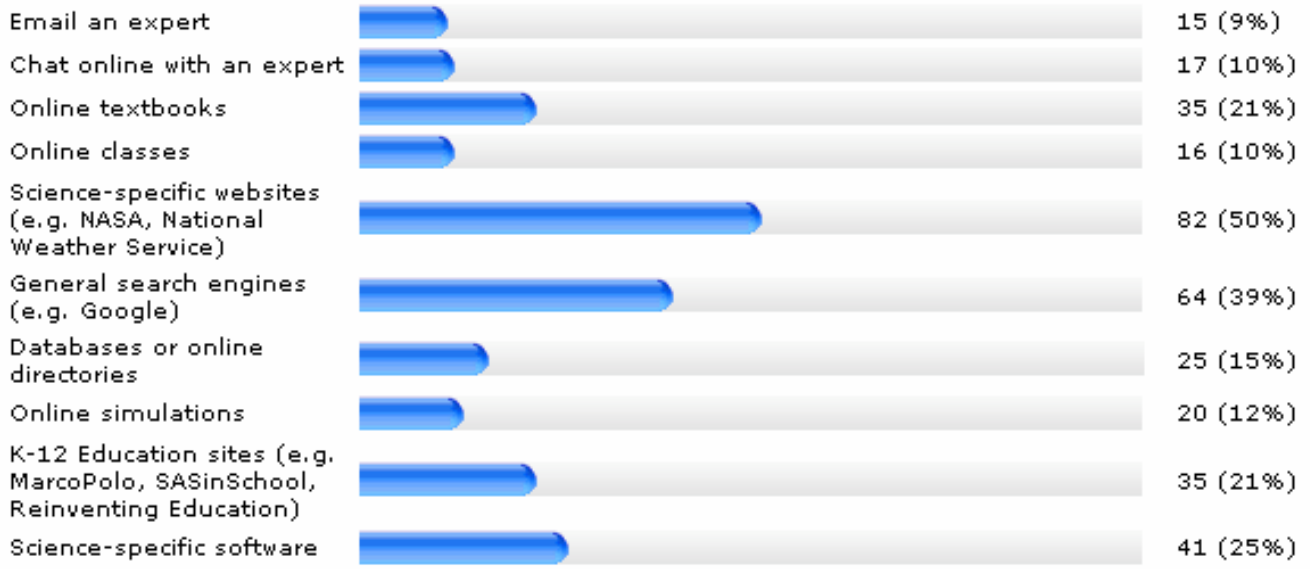
Question 24



25. How do you use technology to help you learn about science?

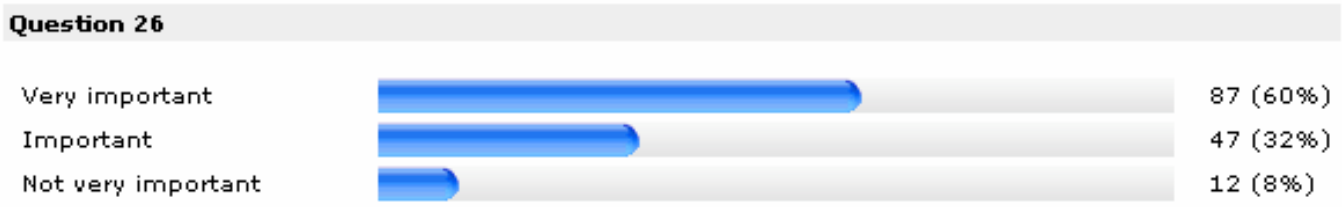
The use of science-specific websites was the most frequent response with half the students indicating these were used. "General search engines" was reported by almost 40 percent. The other alternatives did not garner more than 25 percent usage. The fact that only 21 percent used "K-12 Education sites" indicates an area where more emphasis in both teacher training and student instruction should be placed.

Question 25



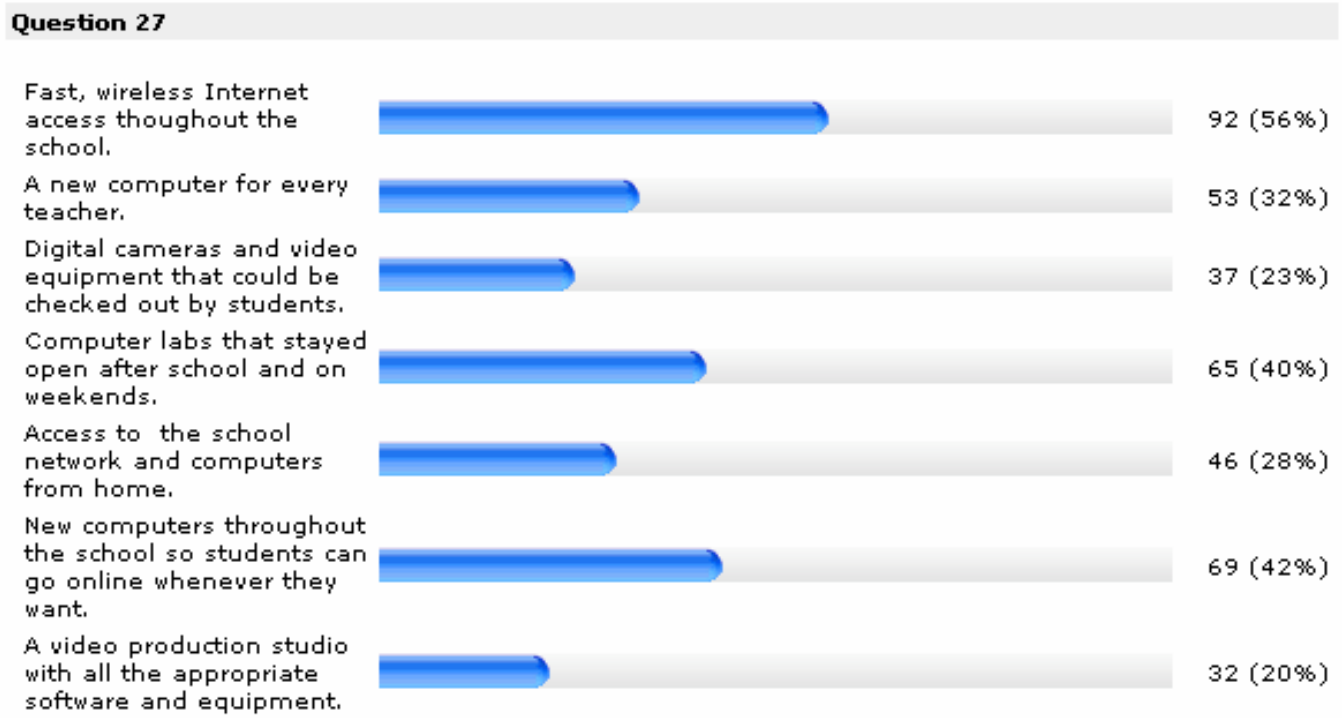
26. How important do you think having access to technology is to your education and your future job and career opportunities?

It is gratifying that over 90 percent of the responding students realized how important technology will be in their futures. Combined with the enthusiasm and acceptance shown for using technology (see question 20), it is safe to conclude these students have the potential for success in the new economy which is characterized by use and application of technology.



27. If you were designing a new school for students just like yourself, which of these would be most important?

New computers either for themselves or for the teachers was given by 74 percent of the students. This reflects the continuous theme of both the student and teacher surveys, that new and faster computers are needed. With 56 percent of the students indicating they would have fast wireless internet access and the lack of access to computer labs in after school hours cited by 40 percent of the respondents were significant concerns which further demonstrated the need for improved and more convenient access. Video cameras and video production studios also received some limited mention as being included in the design for a new school.



28. What is the one thing you would like to tell the governor about you (sic) use technology for learning?

Appendix E provides all of the responses from the students in the form they were received. There are two major themes with can be summarized from these responses: First, students enjoy using technology and find it valuable particularly in doing research and completing assignments. They appreciate the flexibility it provides in allowing them to complete assignments on their own time and outside of class. Many find technology more stimulating than traditional lectures. Using technology as a means of communication between students was also a source of value to them. Being able to access sites of interest and using software such as power point were also viewed as important uses. Second, most students continued to complain about antiquated and inadequate numbers of computers. Lack of access in school and especially by those who had no home access was also a source of frequent comment. Students wanted access to more sites and better, speedier internet connections.

29. Today you and your fellow students are important users of technology. In the future, you will be the inventors of new technologies. What would you like to see invented that you think will help kids learn (sic) in the future?

All the responses are provided in Appendix F. Many of the answers were general focusing on the need to invent more and better software as well as faster and more responsive networks. Some students cited a need to invent less expensive computers so everyone could afford them. A frequent comment was the need for laptops and/or for miniature computers like PDAs which could "go anywhere". There was a desire to invent replacements for computer screens with goggles of other devices which could be worn. Many wanted textbooks to be replaced with either books on disk or on-line text books particularly to reduce the cost and inconvenience of conventional text books. Others wanted instructional aids which would be easier for students to use for self instruction. These were to be designed at the appropriate grade level. As could be expected, a few students wanted inventions which would think or do their homework for them.

Appendix A

- Out dated equipment has been a problem in the past. However, this issue has been resolved this year.
- System is better now, but it was very slow. It has been corrected recently to provide better and quicker access.
- At home I was hindered until I obtained an intenet ready computer and a service provider. Once I had it in my home to use daily,
  my skill improved and I made much progress both at home and then at school. At school the difficulty is attending a learning session and then not having opportunity to use the skills. If you don't use it, you forget it.
- Administrators seem to fear change and technology screams change. School administrators need to encourage teachers to use whatever techology is there to use because none of us know what the future has or will hold onto. Be brave and explore that is what made America great!
- Until 2005, our computer lab was obsolete and unusable. It was recently upgraded (yay!) and the connections were corrected so that we have a good speed and computers that work. I now use it as often as I need to. We need more projectors for the classroom for classroom instruction and use of powerpoint etc. We have only one at our school at this time.
- Hire more technicians at the Central Office for working on the computer labs throughout the county. My lab is Windows 95 and is extremely slow.
- Repair of equipment in a timely manner is a neccessity if students are to incorporate technology on a daily basis.
- If there is a problem at our school, we have a technology team that we may contact at any time. They are very proficient and are always eager to help us.
- We need new computers and printers. As of today, my computers in my classroom are very old. They need replaced.
- update computers, maintentance and connection limits
- none
- In school: The major problem is getting repairs and upgrades done on computers.
- For a home and school computer, I would suggest not using a dial-up connection.
- The only obstacle that I have found is that I have an average of twenty eight students per class and there is approximately twenty two computers available for the students to use in the lab. So therefore there isn't enough computers available for each student.
- At school, there are various times that the computers are down and it takes awhile before they are fixed. At school, there are only 20 computers in the computer lab in the library that are available for seventh and eighth grade classes to use.
- Not enough working computers in the classroom. Not enough technical support.
- School - increase bandwidth throughout WV so more online opprotunities can be realized. Home - For the PSD to develope more broadband opprotunities for the citizens of WV.
- The school where I teach has slow internet access. We do not have enough computers in the classroom.
- Although virus scans can be costly, they are very much worth the additional money. Home

- Several times,someone has accessed inappropriate websites on our classroom computers. This has caused 'down time' waiting for them to be fixed. Also, our classroom computers have very limited memory making internet usage more frustrating than beneficial.
- School and home - Speed School - With nearly 300 computers in this school it is difficult for the students to do their internet based work in a timely manner. Our network needs to be evaluated in the lab. Library computers are very efficient and new.
- We need updated computers in the classrooms. Old ones are to slow and cannot purchase new printers..
- The obstacles concern computers that are too old to be used. The majority of my work with the computer must be done at home which causes me an inconcenience. My time at home has been bogged down with school work for years. Now, additional work has been added that requires the use of a computer, mine at home.
- Broader band with.
- We need more computer techs in Putnam County. What techs we have are great! We just need a few more.
- Need for new software, training, etc.
- More inservice for and summer workshops for teachers.
- I just don't have enough time in the day to do everything I would like to do. I think there should be equal time for all subjects, less useless paperwork, or more time in the school day.
- My biggest obstacle at work has been keeping the computers in good working order. We don't have enough technicians to handle all the computer work orders. There also needs to be more technicians whose primary work is in computer cirriculum.
- We use technology in many aspects of the classroom. One ostacle that we encounter is the use of templates for students to access, use and then the return information. Often we have software issues that disallowed access. We try to reset the parameters to accept. Additional problem involves the use of bandwidth when using a netmeeting network. As of yet, we have not solved this problem. It seems to occur most when we have excessive interaction with another individual.
- When I transferred from an elementary school to a middle school two years ago, I found that the sixth grade teachers were left with the worst of everything; especially the computers in the sixth grade lab. Only half of the computers work which is very frustrating when you take a class of 28 students to the lab. We have continuously complained; however, nothing has been done.
- the grading program, Grade Quick, or Grade Sick, as it is known, is impossible. It takes 2 or 3 times as much time as a regular gradebook for teachers. Somewhere,someone is being saved so much time he or she will live to be 200! We need to able to add information vertically instead of all the names, addresses, phonenumbers, student id numbers, parents names, etc., going horizontally and leaving no room for the grades. We also need to be able to send in grade corrections ourselvesrather than having the vice principal have to do grade fixes for the entire school when students have made up missed work, etc.
- Time! I do not have the needed time to research online or work with new technology. It would be terrific if we could use our IS time just to collaborate on new activities using technology.
- School- It would be more time efficient to have a mobile lab within my classroom;

technology would be used more consistently and effectively Home- I don't like the idea of storing school (confidential) information on my home computer. We don't have some of the same software on the home computer as is on the school computer, so we are limited as to the coordination of our efforts

- I am a Computer Applications teacher. We have problems with our equipment. It is very old which causes a lot of technical problems. How can we prepare our students for the future with such antiquated machines? No one in the business industry or even our central office must use junk equipment like Business teachers. We should have the latest equipment and then filter it down to middle schools. It is absolutely essential for high school business departments to have good computers!
- At school when the county server is down, we cannot connect to the Internet. During statewide testing, the connection time to Internet is long. We need more drops in each classroom. Wiring is behind schedule. Wireless connections would solve this problem. We need drops in our English office, and we need at least 2 computers there for planning, grades, etc. Wireless connections would solve this problem.
- Student lab availability- We have 1100 students and only 3 labs that we can sign up to use. It is nearly impossible to get all three blocks into the computer lab unless you sign up a month in advance!
- Internet access congestion with a group going on at the same time--sometimes students can't get on at all. Our school's server crashed--there was no back up (grades/attendance had to be retrieved by an outside company) and most of us weren't aware of this.
- Money for ongoing professional development for staff and to continuously upgrade hardware is a constant concern. When we don't have it, it is a major obstacle to providing quality technology learning opportunities for students.
- Problems with the I Know website and getting the results from the student testing on I Know school
- Computers break down, network out of order
- time
- Our lab currently has computers that are 7 to 10 years old and are still running Windows 95. It is almost impossible to teach a lesson as computers are crashing because they cannot run multimedia programs or access the server at the same time. Our faculty helped re-wire the building 4 summers ago with a grant. The classroom computers will be 4 years old this fall. They are beginning to show wear and access information slowly. We have an excellent facility but need to update hardware and software.
- In Kanawha County we used to have technology specialists that would go out to the schools once a week, and help us with any problems that we could possibly have with the computers/troubleshoot. Now, we have one guy that services so many schools that we hardly ever see him. We will have a problem, he will try to fix it. Sometimes it gets fixed, and sometimes it doesn't. Then he needs to go to another school and help them because their problems are of higher priority than ours. I feel we need our technologist that have only a few schools that they service.
- Problems with Internet at school are due to slow connections, old software (Windows 98 still installed on school computers), or downed server. Another problem is lack of technical support with no technician on site. Sysops are classroom teachers who are available only during their prep periods which may not coincide with my classroom time in the lab when students have difficulty.

- School network is too slow. Too many teachers sign up for the computer labs. The county does not want teacher to have more then 1 internet connected computer in our classroom. They also don't want Apple computers only PC computers.
- Funding for newer equipment - teachers need access to a computer to use for professional use. State funding only provides computers for student use.
- The wiring in the old school that I work in only allows one student at a time to work at the computer. In the newer schools, I could have three students working at one time.
- We aren't keeping pace with newer technology. Our servers become quickly outdated as does the computers. This results in frequent freezes and students unable to access the software they need. We are really deficient in trained personnel who can repair and install technological devices.
- School: It seems as if our computers in our room are down quite a bit for one reason or another. They are never all working. We do not have a computer lab to go for whole group instruction.
- School the computers are very slow, sometimes lock-up. Also they aren't filtered very well. Inappropriate pop-ups.
- Our school does not have a computer lab, which makes it more difficult to do whole group instruction using a computer. Individual assignments on the computer take longer, because only five students can work on the computer at a time.
- update computers teachers need training in how to use technologe- locally Marshall just offered a Technology in the classroom coursr that taught me how touse attachments, perform effective searches, and use web quests and scavenger hunts. I was so unaware of the resourcesthat can enhance learnin for the higher end. Wvu offers a design your own web page class, too.
- School - I have encountered several obstacles in the use of technology. First, I would like to be able to use my school computer to display information on the television screen for the students during a lesson; however, the computer is not equipped with a video card that will allow me to do this. Second, the technicians in our county are less than cooperative when it comes to repairs and improvements and will fight teachers and administrators to prevent progress. Finally, I teach computer science with outdated programs and no computers. I have to take my class down the hall and inconvenience other teachers to use their rooms.
- Ask someone who knows how to handle the problem you are having.
- The biggest obstacle I have encountered is the lack of computer access. We have three labs, each consisting of 24 computers,to service our school of 1000 plus students.
- School - keeping things working
- With access only to computer labs it is difficult to have all students on the computer at the same time without complications. If each classroom had around 5 computers then the computers could be used as stations and students could use the technology to its full advantage.
- Home - lack of computers with Internet access, or internet access that is extremely SLOW -- improve/increase areas with broadband access School - more classroom internet accessible computers; more data projectors needed; Communications - phones in the classrooms needed
- School- Time involved in getting equipment repaired.
- At school due to wiring issues sometimes it takes longer than normal to get on the Internet.

- Just feeling really intimidated when I first started using the computer but after receiving training, I feel more confident.
- In my position as Technology Contact for the school, I encounter obstacles on a daily basis. It is my job to troubleshoot the obstacle and contact the LEA technology staff for further assistance. I would recommend that more money be alloted for staff positions at the county and school level to help with this type of obstacles.
- Computers with internet conection are often slow, especially when a whole group is working on the internet at the same time. Also, pop ups and cookies distract students and slow down the efficiency of the computers.
- School; not enough hardware support.
- Some of our computers are out-dated (Windows 95), and will not work with some of the newer programs.
- At school, computers and internet need to be kept up to date!
- I usually refer to built in help features and manuals that come with the software or hardware.
- obsolete equipmet
- Herbert Hoover High School. The greatest problem I encounter is the ugrading of computers and programs. I'm in need now of new, up to date computers, scanners and cameras.
- Home - Slow internet connection-pop up ads School - computer repairs - money to replace computers and printers money for ink cartridges
- Our computers at school are often down. We need resources to hire computer techs who come out to the schools on a regular basis or when needed. We experience a lot of down-time because we connot fix them.
- Sites being down
- I teach HOST/FHC/CNA classes I only have access to one computer. It would be beneficial if I had at least 10 or so computers wth internet access for the technology part of instruction.
- Home - being able to afford updated hardware and software for my children to be successful School - Having updated hardware for my use in the classroom - My lack of skills with the computer, being able to teach students what I want them to do.
- The internet at school sometimes is too slow and on-line testing is impossible. Lab times are not always compatible to the time or class I need them for--Lessons taking more than one period are hard to complete
- Availability of high speed at home. Lack of technicians to keep all equipment in working order.
- At school when something goes wrong it is sometimes weeks before repairs are made. In cases where we have come to depend on computers, this situation is really difficult.
- School: 1. Too many NEW tools all at once. As teachers we do not have enough training on each individual form of soltware. We are trained for one to three hours and then expected to be experts without ever recieving instruction again on mulitple products. This leads to rarely integrating the software with teaching practices due to confusion or lack of experience. (Give us more training with with each new program and fewer, more important programs to learn) 2. Slow connections: The entire county shares the bandwidth. (This will be expensive to correct, but each school should have its own bandspace and run as a separate entity rather than as a county-wide server. 3.

Antiquated hardware and software: Some computers in Kanawha county still run using Windows 95 software on five-year-old machines. 4. Lack of portability: most teachers work many hours away from school. We need the hardware and software to enable us to be on the go and still connected to the school (this could solved by equiping each teacher with wireless laptop computers and handheld devices such as Palm Pilots and the software to integrate the two systems).

- school- the computers freeze up or crash home-computer is old and slow (like me!)
- Technology being maintained locally and dollars to fund such technicians; increase speed of connectivity; as technology advances machines being added that are current
- There is extremely slow connection speed at school and home. No funds are available for the maintance of the equipment nor anyone on a regular basis to assist when problems arise.
- The school computers run extremely slow and a high speed connection and/or phone line upgrade would make a world of difference. Many times students spend as many as ten minutes waiting just to get connected. We also have had problems in having our equipment serviced on a regular basis. A technology specialist whose sole job is to service the county's technology equipment on a regular basis would be a valuable asset to our school and our school system .
- I have found that the I Know website and the other site, Reinvent used for training are difficult to navigate and not at all user friendly.they are frustrating and time consuming. I took Phase 9, The Solution Site, which was driven by a technoglogy consortium and was wonderful in comparison. Teacher time is valuable so resources designed by the state should be easy and beneficial.
- Too much, too fast...I consider myself computer/internet literate, and I am feeling overwhelmed by the expectations on me to integrate technology....We've gone out of one ditch to another...Please, CHOOSE one or two applications of technology and give us the opportunity to become proficient in those applications...I can't integrate everything that I am expected to currently, so I pick and choose...Currently, I am using Compass, because it is wonderful, and I hope to learn to use the "I Know" website. I attended an inservice Friday on another application, and I am not planning to even try to understand it yet...I don't have time for Compass, Marco Polo, Lightspan, I Know, and SchoolKit. I love technology, I hate being buried alive.... ALSO, I participated early in the Phase 9 project (love it!), but now my laptop is dead...literally...There should be some way that eager beavers, like me, that participated in this project early could receive updated or replacement laptops...
- school-suggest computer support person for each school and adequate maintenance for computer problems.
- At school the internet speed is a hindrance. Teachers do not use the internet as much as they should for that reason.
- I have no obstacles at home. At school, I do not have access to enough computers for my entire class. The lab is available generally once per month to each teacher, which isn't enough to use it regularly in the classroom as I would like to do.
- School--There still seems to be a lot of paper. I would like to see the acquisition and use of a system that would allow more online work and means of editing and evaluating that way--while maintaining good records of student progress, work and time on task.
- school - computer lab is usually busy - work out a more definitive schedule home - time to search on the Internet for good sites to use
- Home is fine. At school, we never have enough funding to keep our hardware/software

current. WVDE seems to be even worse off and lags behind in compter applications to doing state business.

- We need more "highly qualified" technicians in the State. It is my understanding that the test one takes to be hired as a technician is "not" a standard technician test, like A+ Certification or any of the Microsoft Systems Engineer and similar tests. So, please use a standard technician-type test and hire more "highly qualified" technicians. Thank you.
- Often rural schools are the last to receive the latest in the field of technology. For example, all the other schools in my county had a T1 line for years, yet my school just had the line installed this fall. Until the installation, my school had difficulty keeping up with the technological advances of the rest of the county. Equal access should be given to all students, regardless of their school location.
- The school computer lock up. The state server isn't very good. Doing the Writing Assessment on-line was very frustrating for the students when computers locked, screens took 30 minutes to load, prompts weren't available, papers either weren't sent or were lost, and students had to re-type papers up to five times.
- I am a Technology Integration Specialist and I believe that the biggest problem advancements in technology not reaching the schools at a resonable rate. We also have difficulty finding enough money for upkeep of the technology.
- Please improve the state server so that wait time is lowered.
- At school, we have problems getting our aging equipment serviced. RESA 5 has stopped answering our work orders and Wood County is understaffed.
- State network needs to be improved to handle the traffic. Between 12 and 2, any work on the internet is slow and unreliable.
- Time -- provide teachers time to experiment and learn ways to use technology. Professional development days are always earmarked for something else. Money -- school does not have money to fund technology related professional development. Technology monies are used to keep classrooms and labs in working order. If you're not a Title I school; you're out of luck in getting a grant!
- School:Lack of a computer lab. I'm not sure what can be done at this point because our administrators have researched diligently to solve this problem.
- If we could have consistent working computers at school--life would be great. All I do is tackle problems and have less & less workable time for the kids to be able to even USE the computers. They ALWAYS have problems--and then I have to use alternate methods to do what I want/need to do with my students.
- We continue to emphasize use of technology in the classroom. However, we do not have the funds available or the technology people to keep the computers updated and working. Thus, I efforts are moving along very slowly at best.
- school - 1. Problems getting new computers on line installed with the software that I use in class. 2. Getting printers installed on classroom computers. 3. Trouble shooting problems. My solution is to hire more technicians. I am a classroom educator. I have not been schooled in trouble shooting or the intracacies of Microsoft. Anothe possible solution is teach me how to do these things.
- Would like to be able to access the school server at home to imput grade in the gradequick system.. Would love hep from RESA with this one...
- School - great difficulty getting computer problems fixed. Teachers often go months without satisfactory repair but still are trying to get their children on the required programs. We do not have a computer lab, but if we did, the problem with repair would

still be a nightmare. Often the computers are "fixed" only to have different problems when the technician leaves.

- School- for all of the "Push" that we get to use technology we don't have the support needed. I am a teacher that is not afraid of technology and have included class interactive programs and assessment. However, until we hire persons that are truly a technology professional to support the systems and more importantly to have udated proper equipment, you might as well forget it. If we find good online programs or interactive activities, it is usually very difficult to schedule all of your classes in the lab. Many times the equipment or programs are even too old to run the program efficiently even if at all.
- School- We need a full time technician to keep the technology up and running
- Seperate student computers - in class rooms (I can't let students use the only computer I have, due to confidentiality.)
- Two of the biggest obstacle that schools face when it comes to technology is not enough support for aging and slow computers and not enough up to date computers. There is not enough trained computers specialist to handle the problems in the schools everyday. Technology coordinators are helpful, but they are for the most part teachers that have more knowlegde of computers and than anyone else in the building. There is not enough support for them to do their job properly. They may only have one or two class period to work on computers during the day.
- 1. Training has occurred long before the technology was available to us. We could never practice. (School) 2. Lack of Professional time to practice skills related to actual material one teaches. Professional training is mandated and usually not relevant to my field. (School) 3. Lack of funding, equipment and related services. technical assistance when needed in a timely manner.(school) 4. It is 5:30 pm right now and I'm still in my classroom, what I do at home is my time.
- School-It is hard to keep computers and related equipment updated and running properly. It is also hard to find a time convenient to all to keep staff trained as they need to be. Some training has taken place but it is also hard to get the staff to use what they have been trained to do. Some say time is a factor. Part of the training needs to be to show them how to use technology as a way to meet their teaching goals and not an extra program to have to fit into the day. Being able to use part of Faculty Senate/ISE days for technology training would be helpful.
- The biggest obstacle I have found is speed of the network when you are trying to do an internet based lesson. The next would be the network not functioning. The third would be having a website not available at the time you want to use it.
- There are times that our county did not allow us to use the internet. Many times they ask us to shut down our computers so that they can work on the server. The computer lab often loses power in the building.
- The obstacle encountered at school is access at the time I need students to be on the internet.
- I think that you can get help at school from other teachers. Teachers are always willing to lend a hand to other teachers who need help with technology. I do this a lot at my school.
- school- slow/old incapable computers; slow response from RESA to fix or update hard and software
- need more updated computers (mine are 95's - school)
- Inability to have all children involved in computer activities at one time because no

computer lab is available.

- I teach music and their are many things that can be used to teach in the music field. The problem is that there seems to be no funding for the equipment needed to have the student to use.
- time to search for needed information-work
- School-not enough technical repair support
- Computer access to the Compass Program.
- I need a grade book online
- slow speed at home,
- Get a server that accommodates so much shared usage and provide fairer upkeep, replacement of computers in the classroom. 7th grade is completely overlooked and they are the ones who have to do the Writing Assessment online. Real smart since they haven't been taught keyboarding!!!!!!
- I can't find a good program for doing lesson plans and grades. I currently use plans 1 and 2, but I need a new disc.
- The only obstacle we have is the lack of a computer lab. It is hard to give each student the time they need with only 3 computers.
- New computers with new technology . Sell old computers.
- The use of computers in the classroom with 3 computers (one usually not working) is useless. It is impossible to do an internet lesson for 25 students. We need a computer lab.
- Call my son to get help.
- Time if anything at all.
- Only one computer hooked to printer.
- I can't get some articles to print.
- Some computers are very slow when used online. Pentium I and II computers are extremely slow with the newer software.
- Pop-up problems Not being able to have the total class work on computers at the same time.
- Being comfortable using with students.
- In my classroom, I began the year with two computers. By mid-year, one computer refused to access the internet, locked up frequently and was incredibly slow. This computer was worked on by our technology workers, but to no avail. It was removed this winter and now I only have one computer in my room which I typically reserve for my use as it is placed on my desk.
- At times I have had difficulty with our network. Also, there are times that the internet is very slow when students are trying to get to a website.
- The biggest obstacle is having a class of 20 students and 2 computers to work from. The lab in our school is taken by Spanish and keyboarding classes and leaves 30 teachers trying to get students to the lab at all.
- The biggest obstacle at school is the slowness of the Internet in the computer laboratory. Students get frustrated waiting for information to download. Another school frustration is waiting to have computers and/or network repairs completed.
- School - I am overwhelmed with the amount of curriculum necessary to cover in

teaching first graders how to read. There is not enough time left for technology.

- My Internet access is only at school. The problem I have encountered is time. I really don't want to have my bed at school. If I had access to a lap top to use at home and to transfer information at school it may alleviate the problem.
- old computers in the classroom and lab limited funds for software and web site subscriptions in classroom
- I can not afford to have a computer at home because of the cost of internet connections. All work on the computer must be done at school. Making internet connections cheaper for teachers at home.
- Up to date equipment/fast qualified on the spot repair/good internet connections
- School - Obstacle: Computers freeze in the middle of a lesson Suggestion: Additional training on care of equipment Obstacle: Spam, pop-up ads while on internet Suggestion: Software that blocks ads
- school - Time to practice until I understand enough to use the new skill. I've had lots of training and workshops, but there is never time afterwards to really learn it with somebody who already understands (like our tech team). Time is always the issue. We are off to something different before we have a chance to apply what we are learning. Very frustrating!!
- My home and school software do not seem to be compatible. I often run across things that my computer can't read. I think we should have a standardized word processing software. I also often find that our server is down and am unable to access the intrnet.
- Some of the Virtual School classes have had problems with students often not being able to log in and with students being unable to contact teachers when they have questions. The "i know" website has created more frustrations than resolutions because of problems associated with teachers being able to access the site--it has not been user friendly.
- School - limited to the software that can be downloaded onto classroom computers for students to use to enhance learning
- at school.....student lab gets access to latest computers; teacher used computer in classroom is "oldest". It is difficult to work with old computers. Teachers are told to use Fac. Sen money to purchace printers. This should not be a teachers responsibility. We also purchase our own ink IF we have a printer.
- We need more computers so more children can work on the computer at one time.
- Keeping our computer equipment updated and repaired is a constant problem.
- School -- We do not have nearly enough "manpower" to manage all the computers in the school. Time I spend on being Technology Coordinator must be "stolen" from my full-time job as School Counselor. Even though the county pays me a supplement to be Tech Coordinator, the technology work needs to be done during the school day and with nearly 300 computers and 600 users in my school, several full-time staff are needed to fully utilize the technology equipment we have. We also need someone to work with staff on incorporating technology into the curriculum across all subject areas. School -- We do not have enough training for teachers on using technology, nor on incorporating it into the curriculum. Many teachers have taught themselves, but they have such limited time during the school day and there are insufficient funds to pay stipends for after school or summer workshops.
- classroom - print sharing & printer problems - need expertise sooner than waiting for RESA tech. classroom - network problems - solution is same as above. classroom -

virus & pop-up problems - solution is same as above.

- We need a computer lab. I would like some training in both basic progroms and ideas for tach use in the elementary classroom. Middle Creek Elem.
- County-wide: Bandwidth issues in competing with WVEIS bandwidth allocations. County-wide: Onsite building level technology support on a timely, daily, basis. We need at least part time building level technology support people that do not have teaching duties.
- Basic Skills and Riverdeep freeze up on one of my classroom computers and the speakers do not work on two of the computers. Our technology person is always busy throughout the year with an after-school program and cannot work with me on technology problems.
- It is difficult to recieve funding for cutting edge technology such as interactive whiteboards. It seems like we are fine with computers and Internet connections. It is time to get more advanced technology.
- School - lack of knowledge of using the technology
- school--having equipment that actually works, software that is relevant and support from the district
- School: There is not enough planning time during the day to do all the required activities involving technology, that is, lesson plans, grades, web site, etc.
- Our computors are old and are very slow in accessing the internet. Also , we need a full time computor specialist on staff as we have problems daily.
- There are never enough working computers for all of the students in my classroom. The heat in my room is unbearable as the weather gets warmer, there is no airconditioning or overhead fans. When a computer breaks down there is no one in the building to repair the problem and a work order can take up to a month before someone from RESA can come to repair. Some of the students do not have computers at home. It is very difficult for student instruction when students are not allowed on the internet because of past problems. I am not able to make tests/worksheets at home and take a cd or disc to school because what I have at home is not compatible at school.
- we have had problems with the server and that has created problems, at times in the library.
- We have many computers at our school, but our biggest problem is keeping the hardware up and running. All the money and grants goes toward implementing technology in instruction, but you can't do that if your computers, servers, printers, etc. don't work. We need paid technicians working with us. We're the experts at using the tools, while others need to help us maintain the tools. Also, blocking personal e-mail at the school level is a problem, as many students need to send their work home (via e-mail) to work on it.
- I need a high speed Internet connection at home.
- School-surver problems have been a major problem in our school this past year.
- more training for teachers on practical uses and the general setup of computers and equipment.
- SUCCESS Funds need to be open to all vendors--No Contract! Full-time tech person at each large school so teachers can teach instead of worry about network! Bandwidth needs to be allocated for classroom use first! Ongoing, meaningful professional development for tech.
- (SCHOOL) Sometimes we have problems scheduling time in computer labs because of

composition and English classes seem to have the labs tied up and don't seem to care that career and technical students need these resources also. The teacher in charge tries to include everyone.

- I HAVE NEVER HAD ANY TRAINING ON COMPUTERS THAT WAS OFFERED BY THE COUNTY. I WAS ALWAYS TEACHING THE WRONG GRADE AT THE TIME OF THE DESIGNATED TRAINING. iIM SUPPOSED TO BE THE "TECHNOLOGY COORDINATOR" FOR THE SCHOOL, BUT I'M GROSSLY UNDERTRAINED.
- Limited Bandwidth (school)
- Sometimes, the computers and printers won't work. The hardest part is getting someone to get the time to get the repairs done. We have to get the work order done and have to wait until repairs get done. Sometimes, the technology team are very busy and don't always have time to get to check the computers to figure out the problem.
- S - No obstacles except lack of time. Solution has been to spend personal time fixing problems, losing lunch periods and planning periods. This often infringes on student instructional time.
- At school and at home, the obstacle always seems to be the slow pace of the computer.
- School--There have been times when other classes need to use the computer lab at the same time(s) as my classes. We have approximately 500 students in our school with one computer lab to share. We don't have enough access to computers, and the access we do have is limited, not only in time but capabilities with our antiquated technology. We desperately need more up-to-date technology.
- The internet keeps getting better.
- Our computers at school are supported by Windows 95. I am taking an on-line class through WVU and find that Windows 95 is no longer "supported" by most entities. That means that I cannot connect to WVU at school. I was given a grading program which requires Windows 98 or above. There is no one in the building to update these computers or troubleshoot. As a result, I do not know what I can do with them. I primarily use them as word processing tools. During ISE days during which the focus is on technology, nothing ever works smoothly. We are unable to connect to sites readily, or at all.
- School - technical difficulties with computers not working or breaking down. Home - I do not have high speed assess to my home because of location and dial up is too slow and frustrating so I canceled my at home service provider.
- I would like to have more access to accessories such a data projectors. As a counselor, I would like to be able to present developmental guidance lessons using a laptop and a data projector. I could have lessons prepared and present them in a way that would keep the interest of the students.(School)
- School - monies not provided to adequately maintain computers. Not enough classroom computers. Labs are not updated regularly.
- Some obstacles include not having the fast, up to date computers in the classrooms.
- school- many times the computer doesn't work or does not have the applications on it that I need. The time to find sites on the internet or how to use the various materials and sites.
- Teachers need more time appropriate training using and understanding the technology. We can have all the hardware and software in the world, but if teachers don't understand how to use it, it doesn't happen.
- My school is poorly wired and has hardware that is extremely outdated! My number one

priority be to update the wiring, including updates to the LAN. Once that was completed, I would make sure ALL classrooms had the latest technology available including state-of-the-art computers as well as SMART boards in place of existing chalkboards.

- My biggest problem is finding time or a technician to repair computers or other technology that is "down".
- school - Not enough computers to allow entire class access at the same time. Solution: rotate students on the 8 computers I have and give instruction 3 times during the same lesson.
- As a special education teacher, we are required to use a computer program to write our IEP's. It would be beneficial to have a lap top to accompany me to meetings, as I'm not usually at a desk top to complete all of the documents. Our school has a wonderful mobile lab, but it is only available on scheduled calendar dates. It would be nice to have a lab within our school that could be accessed on a daily/weekly basis. Teachers do not have enough computers in individual classrooms to incorporate technology in their lesson plans on a regular basis.
- Only one computer in my classroom
- The obstacle I face at home is in only having access to a dialup connection. This is not scheduled to improve until 12/2005. Therefore, I have to complete any job related tasks at school and I end up coming early, staying late, etc.
- In school it is difficult to get all the students to complete an assignment at the same time and when working in the lab we are scheduled for a specific time, therefore some students leave work that is incomplete. 3 classroom computers are not enough for a self contained class of 22.
- school - - limited time to take students to lab
- Just today! Hotmail, which is how I received this email, is no longer available to me in my classroom or at my school. Hotmail is how I receive ALL my Internet correspondence. This now will only happen at home and at a time and perhaps a place that will not be condusive to learning.
- Computer lab time is at a premium. It is tough to get students into the labs.
- Any obstacles that I have personally encountered in my classroom or in a computer lab have been overcome with the assistance of our building technology coordinator. Without her presence in the building, the technology problems would result in the delays of many important academic assignments.
- At School - Computers are outdated and not adequate for use in the classroom. I suggest getting at least one computer (Modern) that can be tied into power point presentations and able to use DVD presentations on a large screen.
- Obstacles occur when there are problems with the Web Sites or Networks. All schools need to be monitored to insure the equiment meets the critera and technology standards in order to receive and complete the tests.
- slooooooooooow net, problem with server, difficulty with equipment
- Provide students at home with internet access. Provide students (starting in 7th grade) with graphing calculators. Provide after school transportation to remain at school to complete assignments or inquiries.
- You have to be so careful about having the exact address, or the students can end up in a lot of negative places.
- All classrooms need to have at least 5 working computers in their rooms. I have only

one in my room and it is a hinderance to using technology.

- School--getting computers fixed that have a problem. Testing for Benchmarks when time was not allotted in the lab was a major problem. Second time was OK. Home--I feel I need high-speed Internet to keep up with everything but it is expensive.
- 1. keep class sizes to a maximum of 20 students 2. the computer labs are almost always full 3. setup time is very long 4. time to learn how to use the technology is hard to come by
- classrooms better equipped for technology integration into the classrooms (i.e. projectors, smartboards, wireless access points)
- Many times our classroom computers are not working. Some of the lessons we have are too difficult for our grade levels. Technical support should be readily available instead of in the hands of a classroom teacher although ours is doing a super job considering the time she has available.
- I prefer not using them. I have found the organization needed to teach very difficult to maintain in a computer lab. I am totally opposed to replacing "educating" the student with showing them how to cope via technology. This method is er-roding our ducational system.
- At school a major obstacle is keeping the computers up and running. Also space is a concern if the lab is disconnected and all computers are put in the classrooms. It is difficult just having 5 computers in the room as far as space is concerned. Another concern at home and school is that often when we are taught computer skills then we are not able to implement them right away and then I forget the skill.
- at school-the computers are very slow and many times the students must wait too long to get internet pages to come up, this is not good for kindergarten or any other grade for that matter. This is a great deterent for me to use the internet with my students. I'm sorry I have no suggestion for improvement as it is probably out of anyones control.
- Most computers in our shcool(and all in the lab) are Windows 98, which cannot support the latest technology. And Win 98 is not even supported any longer by Microsoft.
- Internet connections are too slow to be effective when considering time management in the classroom.
- School computers never ALL work properly -- the machines require regular maintenance and care to function. Schools desperately need a full-time computer technician to maintain the school's technology programs and supervise the computer labs to reduce vandalism.
- School - 1. The need for Technology Education Classes. 2. full time tech coordinator to help integrate technology into classes. home- 1. Grade quick (grade program) from home 2. I could use a palm pilot
- My four of the five computers in my classroom are dinosaurs and the students find them hard to use because of the down time it takes the computer to move to the next page, activity or load a program.
- School- The computers don't always work and I feel we have a great computer lab and many computers int eh building with internet access but it is very frustrating when you want to use something with your class and it does not work it is a difficult situation.
- School: students are unfamiliar with the uses of technology except for games, music, email, IM and cheat sheets for games. This hinders me in trying to get useful skills across to students, they do not see the importance of learning. The one SUCCESS lab is used daily by core teachers as required and leaves few days available for other classes

to integrate technology. Many students do not have access at home; to assign online activities as a grade would be unfair. Therfore many teahers do not assign online activities. Release time for training and schedules that permit team planning.

- Our biggest problem is the time lapse in getting correction for mechanical problems with computers. Secondly are the technical glitches that go along with the online testing we have been recently doing. These types of sites need to be more fully tested.
- School - it takes too long for computers to be fixed. Rexa needs more technicians to repair computers. Also Compass people need to be able to come more often when needed.
- For home and school use, I'm really looking forward to the state-wide implementation of fiber. It's my understanding that it's on its way.
- time to find good sites and software to use with curriculum
- Required to do programs in which there are problems that need to be solved. Solve problems first before requiring faculty to complete programs. More time within the school day (without students) is also needed to incorporate programs. Teachers should not feel overburdened to do these things on their own time, or to give students "busy work" so programs can be completed.
- The response time for the county to react to a problematic computer. It takes them about a week to respond to persons experiencing computer problems. Also the turn-around time to get parts from computers from companies. It takes weeks sometimes just to get one computer part.
- Actually, for art I need more visual illustrative type of software, which is expensive, and needs the extra cost of site licenses; I do not have the extra funds from the regular classroom allottment to buy these to keep up with the ever-changing technology-based education/needs in art. Therefore, I do not think I am doing the total state of the art job I could be doing in preparing these art students for possible careers in visual design. And yes, a certified art teacher is the one who needs to teach this, not just someone who is handy with computers; they need the background design/illustrative know-how along with the technology; as a result, WV art programs are second to many out of state high schools whose county make these software funds seperately available.
- 1.Limited use of 3 classroom computers with class sizes of 20-25 students. 2. Problems with homework assignments requiring Internet use due to lack of access in some homes. Students have access to school computers before and after school, but a few do not have transportation allowing them to take advantage of this. 3. Problems with scheduling the computer lab. Core classes are assigned dates (that many teachers do not use), and other classes can only schedule on Monday or Friday. And testing requiring computers takes up weeks of the computer lab when no one can take students into the lab.
- All students and teachers need free and equal opportunity to access the internet with the appropriate assistance at home and school. Also, teachers need time to learn and evaluate what is available as well as implement the programs we are required to be using. More is being required without any support or additional time being allotted to learn or use the technology resources available.
- We have several incidences when students can not get online. Also, several computers do not work on a consistent basis, and getting them fixed seems to take an eternity. I have a computer in my room that has been down since December, and no one has even looked at it yet.
- School obstacle - computers not working properly and a very slow response to the

request for service. For example - I have a computer that the first request was sent out on 8/11/04 and it still has not been repaired as of 4/18/05.

- System is very slow
- Sometimes the sites and links don't work, or they work on some computers but not others.
- Need someone within each school to keep the computers working properly. Need them all networked to one printer in each classroom. Tec. person seems to have a difficult time getting all computers to do the same things. Many times my older computers had java script errors.
- I am very proficient in the use of technology at home and at school. The main obstacle at school is the absence of a lab for large group instruction.
- School - We do not have a lab.
- Lack of time to practice and explore technology applications for integration in instruction so teachers comfort level is established before trying with students- School
- There is not enough computers in the special education classrooms..... South
- Media specialists can repeat grading, email setups, email procedures, emailing a list of indiviuals, and sending an attachmet workshopsfor thse who need them.
- Finding time to learn and use technology
- Both home and school, internet connections are slow.
- More tech support at school would be a great start. Businesses and government visitors have laughed at our 3 full time computer tech support guys for the WHOLE county's schools.
- Not enough up to date computers. Not enough time with all the other things we have to do in the classroom. We need to have time to work with computers to be able to incorportate them into the daily routine
- Coordinating home and school access to software and internet sites. Software programs and websites I have access to at school are not available at home, I like being in my home more than at my school. I have a refrigerator and a comfortable chair at home.
- Home-We must have an online gradebook, but we can only access it from school. I grade many papers at home and I can only record the grades in the gradebook at school. I would love to be able to access my online gradebook at home, where I do most of my grading.
- When I am teaching at school and want to share a power point or excel chart, it is difficult without the required equipment to project the computer screen. I would use technology daily if I had such equipment in my classroom.
- We have some computers that are older and slower. Improvements would be to update all computers in the building
- Our school does not currently have a lab.
- N/A
- We need more computers. We need computer that have new operating systems. We still have computer with Win 95.
- We have to wait to long for help to fix small problems. Having a technology person at the school, even someone to teach technology specifically would be very beneficial.
- computers are slow - school

- Lack of funds to keep updated technology in schools
- It is hard to manage all the issues with technology...We have two labs and approximately 25 - 30 computers in classrooms. It would be wonderful to have someone to manage technology and monitor the labs without teaching assignments or other jobs.
- The availability of update equipment. The majority of the hardware in our schools are older and outdate. Newer software will not operate on the systems,
- To overcome the obstacles, it would be nice to have computers that are up to date (newer than Pentium 1's), and printers that function. Additionally, a wireless laptop lab for science classes would be optimal so more than one teacher could utilize them when needed.
- school--servers can be down when planning a school assignment or computers not all operational when using a lab
- Trial and Error at home, at school ask computer lab aide or other teachers
- School - when the computers are not working due to problems that only a technology specialist can correct. There needs to be a specialist at every school that can work on equipment and software.
- hardware connections (school) - more frequent technical support
- For home use, my internet provider has changed my IP address (I think) and placed too many blocks on incoming e-mail, so that it is difficult to send and receive e-mails. The internet provider needs to adjust this and try to keep service consistent. At school, there are few problems--usually human errors that we can fix. We need more funding for computer technicians so that we can hire one more full-time technician.
- The equipment we do have is beginning to be outdated. I rec'd a grant for an LCD projector, but purchased my own laptop so I wouldn't have compatibility problems with it. I'm not sure if there is a schedule to replace equipment, but I believe that should be looked at, similar to textbook replacement.
- Our statewide system WVEIS is very difficult to understand, especially for new employees. There is not enough training for new and continued personnel that is consistent. When a problem does occur, it is difficult sometimes to get help in a timely manner. (school)
- Need to have a LCD projector in each room so students can use technology. As a teacher, I already know how to use the computer and powerpoint. I would like to be able to teach the students how to use these products.
- School--Extremely slow with access to the internet. School--online testing too slow; information for sophomore writing test was lost; computers locked up; writing lost. School--entire computer system in our high school is extremely slow. School--computers are old and need replacing
- school - upgrade technology so programs can run efficiently
- At home and school the biggest issue for me is keeping the equipment updated to keep up with the technologies of the internet and software. If I don't get upgraded equipment a lot of the software and things I like to do simply do not work (ie I have Windows 95 on my computer at school, outdated!!)
- We need a T-1 line to increase the speed of the internet at school. Compass is an outdated software package that needs lots of maintenance and isn't teacher friendly.
- In our county we have 3 computer service techs for 14 schools. Each school has a teacher who is in charge of technology, but that person has a full teaching schedule too.

We can't get things done when they need to be done.

- Adequate staff development for teachers to use computers as instructional tools rather than "just playing" using games etc., is a major obstacle for schools to overcome when introducing computers into the daily classwork of students. The use of computers in the classrooms by teachers requires many hours of staff development. The computers are a "foreign entity" until teachers learn to use them as tools for instructing and learning rather than "fillers" for taking up the last 10 minutes of class time.
- State filtering system causes delays and limits access
- Students have laptops and transporting the laptop and all their books is a problem. Also there has been breakage.
- The Internet computers in my room are slow, and with limited instructional time it would be beneficial to have faster computers in order to effectively meet objectives and learning goals.
- Jefferson county High school --- problems with getting technology up to date. Wevis and gradequick compatability and getting technicians to get gradequick and all of its functions operating correctly. I would also like to see a replacement plan for the equipment.
- Need several computers for student use that could run music software or access to networked computer lab with music software.
- not enough software to use due to lack of funding.
- technical assistance
- Lack of broadband and/or wireless access in my area. (Home) Limited scheduling time in main computer lab (school)
- A few times the server has been down.
- I am unable to fully use accelerated math because state allows only one hole in firewall. Although the program is good and progress of students is good, I will not be using the program next year because it is not fully functional.
- At times, the internet access at school does not work. There have been times that the lab is not fully functional.
- Frequent breakdowns (malfunctions), insufficient training/implementation opportunities, others not using
- The main obstacle is the slowest of our t-one lines into our part of the WV. Many lessons and programs take a long time to download. Speed wise in delivery of programs; we have gone backward not forward in WV schools education. Another obstacle is time. With classes over 30 at high school level it is difficult to grade all papers and keep up with the latest in technology.
- I have encountered several problems with the Resa IV IEP website in the last three weeks, it has been down during the weekends and I have been unable to complete the IEP's when needed. This has been huge problem not just for me but for other teachers as well.
- No laptops are available at my school for class presentations, powerpoints, etc.
- NOT ENOUGH BROADBAND!! Students in Health Care Fundamentals are required to take End of Course Exam online. The computers kept crashing!!!! This was an at-school problem.
- At school it is quite difficult to take an entire class with more than 20 students to the lab because there are not enough computers or at least one of the computers is not

working. Frequently the students cannot get onto the Internet because of the slowness of the connection.

- Computers lockup in my classroom because we are running Office 2000 with only 64 megs of RAM which is not sufficient for multitasking.
- When students take the content test the system is to slow. The students have to wait to long between questions. Beef up the servers I guess.
- It is so slow at school that by the time you log on the time is gone. At the high school level the computers are out of date and we are still using Windows 95.
- We have T1 lines, but the bandwidth for our area is too small. It is difficult to accomodate a large number of students on the system at one time.
- technological difficultings are a problem. Access to a lab is a problem. The I- Know website is not user friendly. Not enough variety in the Compass Lab, science and social studies is barely in there.
- Equipment needs to be updated at sooner. By the time we apply for, get approved and wait around for "our turn" that version is old school. I realize that the school system has limited funds and we cannot keep up with industry, but we must not be laughted at either. When I'm teaching an advanced computer class and I cannot load clip art, or an organizational chart because I'm using Windows 2000 that was loaded for a reading program and I have no sound on my computers so that Video clips that came with the software do not work. Yes there is something very wrong. Also we need more band width.
- Equipment failures at school
- The way virtual courses are offered by the WVDE is not equitable for all students. Many times students have to pay a tuition. Low SES students cannot afford to pay these fees, nor do low income students have access to technology at home. Also, with virtual courses we have NO documentation to verify a student's work. Anyone can do the work for a student from any location.
- I have 4 computers and 1 (one) hookup so 3 useable, working computers sit collecting dust. There is only ONE technology support person who cannot possibly handle all our needs so when there is a problem we do not have the support services needed. This severely limits student research, technology skill development, opportunities for student assessment, skills reinforcement, test taking preparation. Lastly, we do have a computer lab that is seldom available. IF we get to use it, we lose instructional time walking to and there is less control/ supervision than in an area such as the classroom.
- PVHS has had problems giving the State writing assessment and the Business End of Course Exams. We definitely have a problem with our infrastructure because we have Frontier not ATT as our phone service. Band width is a key issue when dealing with state tests. Another examples is the SAS in Schools where we cannot get the math to work. Our county has great teachnicans but three is not enouh to keep all the computer working in the school. We constantly have computers down, etc, due to manpower or lack of funds to purchase needed parts.
- school: computer repair - not enough technicians - or perhaps special ed does not have enough pull to get the attention of the repair people ancient computers - not enough money to provide new computers and/or poor purchasing decisions resulting in equipment that doesn't work
- In assigniong projects, students often visit a lot of sites which are of no value, but they do not realize this until they have done the exploration. We have problems getting on-line, and the time getting on-line is often long, resulting in delays.

- At PikeView, my computers have a tendency to freeze up and time out connections, making the user start over, losing work.
- At school: 1)When a computer or printer goes down, it takes a long time to get it repaired. We need to have more people and money devoted to the physical upkeep of the technology. At school: 1) Everyone needs to be trained on new technology instead of just a few who "bring it back." It's never taught to us in detail enough to be useable. At Home: 1) I'd like to use the Pegasus system at hometo communicate with parents, due to convenience and the fact that I am not allowed to use "commercial e-mail" at school, but I can't get into the Pegasus system at home.
- Well, first of all, I do not even have internet access in my classroom, as many others near my room also do not. I have a computer, but the only reason that I have it is because I purchased it out of my own pocket!!!!!
- SCHOOL Problem--programs that require lengthy teacher preparation/set-up and are complicated for students to access (example is COMPASS) Solution--programs that are more teacher and student friendly Problem--computers that shut down or do not work properly Solution--more tech support Problem--new computers that do not have the Basic Skills program accessible to students Solution--load Basic Skills on all servers and all computers so that all students can access it
- The bandwidth needs to be broader.
- School: lab unavailable when needed equipment/software doesn't work properly lack of a specialist to help as problems crop up lack of time in the school day to do all that is needed to prepare or research technology appropriate activities
- We need wider bands of technology during greater usage.
- School computers systems have not been monitored/maintained the way they should be. This could be managed better if the position of sysop was a paid position(salary comparable to time needed to maintain the system). Also, I feel that the position needs to include actual time with students and teachers for learning to use the technology. For Special Education, the Resa website provided to write IEPs is great in theory and a nightmare in real life. I have found it an obstacle more than not this spring. I feel it was poor planning to make the changes that have been made at this time. The changes should have been made in the fall or summer but NOT at annual review time.
- Increase band width on T1 line. Band width to low.
- computer lab shut down about two months due to changing server need full time computer lab assistant to help during scheduled time need more time scheduled than twice a week for 30 minutes
- Whenever there are hardware problems, it takes too long for technicians to address and remedy the problems.
- When using the Internet for on-line assessments, such as the writing assessment, it has become obvious that some parts of the state, especially southern West Virginia (Mercer County in particular), do not have the necessary bandwidth available to support such use. We are in sore need of an improved infrastructure.
- Not enough bandwitdth--in the afternoon, the computers practically shut down. We deperately need a full time computer technician at our high school, which has about 1, 200 students.
- Lack of infrastructure to support volume of use creates chaos using multiple machines and make use of even one machine slow and time prohibitive. Equipment not dependable. A lab for 25 students(even when occasionally available) will not accomodate my classes of 30. Portable labs of 15 a disaster.

- Inadequate infrastructure and bandwidth cause the computers to work very slow. The potential inherent in using computer technology is often lost.
- Outdated computors in classrooms. Lack of bandwidth.
- More staff to work on computers. I purchased school license for a program for two classes and can not get it installed on comptuers so it can be used by the students. Princeton High
- computer slow down 1 hour test takes 2-3 days MCTEC
- At school we had trouble with our server being down for about two months and weren't able to use the lab. Although we were a new school we didn't get new computers and they were constantly having some type of technical problems which prevented us form using them. Also, the software programs weren't readily available to use in the classroom.
- poor bandwidth for service accessibility
- Need increased bandwidth
- About half of the computers do not work. These is only assistance by a computer person half of the time. Students have to share computers.
- The biggest obstacle is slow internet. As more and more people use the internet is has become extremely slow. A fast internet is need for our area. Finding the time to use all the technolgy advances.
- I am a high school counselor who uses the computer regularly--with WVEIS and all other duties currently required of me. My computer is very old (Windows 98). I desperately need a new computer!
- The band width in sourthern WV is inadequate. Timely repair and replacement of computers is a problem and computers under warranty are expecially taxing. Brushfork is a Technology Demonstration Site since 1991.
- I need more training on about list servs-how to send using lists
- I need more than one internet connected computer in my classroom. I teach composition, and if the child misses on the days we are scheduled for the computers,they have to be sent to the library unsupervised. They are supervised in the library, but they need more direct supervision.
- In general our county provides excellent Internet accessibility. However, I have had some difficulty with and extra project I have. I run a small robot with a camera that connects to the Internet, where anyone with access to the Internet may drive and talk to my classroom with text message. I have encountered some difficulty in keeping this site up and running from the stand point of our county technology department.
- Inability to access internet in my classroom. Not enough working computers on a day to day basis. Cost of updates and software used at home for school. Not enough Kindergarten friendly sites for my students to use independantly.
- More technology personnel
- I am a T&I shop teacher. My classroom is my shop also. It is a terrible classroom setting. I have asked for a classroom so that I could use more technology but have been denied. I need a classroom period.
- At school our computers are often not working due to the fact there are older computers. Also at school, the electrical wiring on my end of the building is old and the four classrooms on that side cannot have their computers on at the same time. I would solve both by upgrading the electrical circuits and the computers but I doubt the county

will.

- There have been times when the system was down and we haven't been able to use it. If there were more techinicians in the county to keep the system up and running I think more teachers would use it. Many panic when the sysop can't get to the right away.
- School: access either due to number of available computers or technical difficulties stemming from ISP and/or local network problems. Solution: continue to update, upgrade, and equip classrooms & schools with the lastest technology available.
- School - slowness due to quantity of traffic on certain websites
- School running 56K instead of T-1 line
- school - computers lock up, server down, not enough computers, not enough time in the schedule
- The obstacles that I have encountered within my classroom in the computer lab is the difficulty for the students to get online. It is also time consuming to program the computers to meet my curriculum needs.
- I feel I need more training because the technology is constantly changing.

Appendix B

- standards based teaching positive reinforcement with students and staff conflict resolution and the aggressive student
- Time to meet with other teachers to share ideas of what works and what doesn't. New ideas to excite students.
- Lesson plan technology intregration Lessons using and intergrating technology Web page access
- Training in how to use 3 computers in a classroom with 30 students. Training in computer maintenance. Training in lesson plan development with technology.
- Dealing with behavior disorder students Handling stress Working with parents
- To stay informed/current with what is happening nationwide in educational technology. To attend conferences that support networking with others in the state/nation who consistently use technology in the classroom. I know that the ability to network with others has the power to increase and improve the quality of tech integration.
- I would really enjoy attending a workshop on Frontpage. I would like to obtain a license for the Inspiration program on my classroom computers. I would like to take advance workshops on computer/technology. (Phase 9 was an excellent workshop and one I hope will be continued).
- Training on standards based learning. Training in development and maintaining web pages. Stress mangament.
- 1. cutting edge tech. 2. access to knowledgeable tech people 3. access to national tech based learning
- use a graphing calculator more effectively in the classroom use the internet more effectively in the classroom use more multicultural activities in the classroom
- I need SUCCESS computers in my classroom. More time in the compass lab.
- Bloom's Taxonomy Rubric development Classroom Management Techniques
- I need more time to develop lessons from the internet. I need for the presenters in workshops to not just talk me through a situation but have written material so I could practice.
- Classroom management skills for teachers while students are using computer More extensive training on the computer Integration of computers and technology into the classroom
- Correlation of Technology Enhanced Computer Assisted Classrooms Understanding the use and effects of Technology driven curriculum
- Room for computers, larger classrooms for easier accesss of computers, block scheduling to help with use of technology
- PowerPoint Presentational Software Incorporating technology within a lesson not as a stand alone Troubleshooting
- GradeQuick inservice Learn more about wireless capabilities and uses Dedicated person for computer maintenance and repairs
- powerpoint graphing and chart making digital imaging
- Smart board training data projector training general computer programming (adding programs etc.)
- I need something that will never be allotted by the system, time. I feel confident in my

ability to do my job. I just can't find time to do my job sufficiently and have a home and family also. Maybe, our professional development program could include tips on time management. Either that or allow me to take something out of my basket of 'to do' items.

- Incorperating new technology (smart boards, TI navigator, etc) in the classroom, using technology to enhance the program, ways of finding funding for new technology
- I would like to learn more about spreadsheets. I would like to know how to diagnose computer problems and know how to fix them. I would like to know the magic behind progamming.
- Teachers need to learn how to maintain their computers inside their classrooms. The technicians have enough to do.
- Access to new up to date technology and how to use it...school systems are years behind the business world in what we have to work with. Any type of new software that is available along with training and an on-site expert to assist with problems. The reason teachers lack technology in the classroom is because they lack classroom support on how to use the technology...one class in how to, is not enough.
- It is difficult for me to list my professional needs because I have had a lot of professional development on my own time. I am involved in the following: developed my school's webpage and keep it updated, problem-based learning, GLOBE program, posted units on The Solution Site, etc.
- 1. We have lost so much class time this year learning how to do all sorts of t hings, and plannng for next year, that this year's students have really suffered. I and they need time in class to practice all the training and techniques we have learned. 2. Time to practice just one or two things we h ave learned. We had 5 or 6 sites explained to us recently, and they all look pretty good, but it all went by so fast, and now I am back in class trying to make up the lost time, and I am forgetting already.
- 1. Applications for technology that are subject specific. 2. Time to explore and plan using technology. 3. Practical professional development, not just another software program I will never use, or already know how to use.
- 1. I need ideas for my subject area (Business Ed.). All the development is for core classes. 2. They could do development is simple problem solving for technical problems.
- Additional planning time to write units which incorporate technology and the prioritized curriculum used by our county is needed. These would include the state curiculum standards as the basis for instruction. Interesting sites and activities could be utilized to increase students' interest and to improve lessons. There is not enough time to work on these. I would love to have a workshop for graduate credit where teachers could write plans and publish them for other teachers to use. I would also be willing to do this at home for pay. We need time to use the technology which is available.
- Wireless internet in classroom Student availability in internet computer labs
- As a principal, I would list: 1. Teacher training in how to use technology 2. Teacher training in various research-supported instructional strategies and classroom materials 3. Teacher training in literacy instruction across the classroom
- I Know
- Technology Evaluations Working with children with disabilities
- data base training (Access,Excel,etc.) power point training
- access scanners web page

- First, teachers need time to be immersed in using technology themselves before they can effectively use it with students. Next teachers need to have time to collaborate with teachers within their home school to plan technology immersion that will work in their classroom. Lastly, funding needs to be provided for professional development or release time for immersion training.
- 1.Research based instructional strategies 2. Management strategies for at-risk children
- Time to locate and adapt lessons on SAS in School or other websites for my own students' needs GradeQuick and all of its possibilities in-service at the beginning of the school year Orientation to technology for new or beginning teachers
- 1. Content instruction 2. Technology instruction 3. discipline strageies
- Technology Teaching Strategies Positive Behavior Management
- Integration of technology into the curriculum Basic computer skills Advanced computer skills Troubleshooting technology skills Learning about NEW technologies available for school/student/professional use
- 1.Creating a website. 2. spreadsheets 3. Power points presentations
- Teaching students to compose on computer. Using peripherals. Solving gradequick problems at the building level.
- We need more tech support. More equipped/updated computers. Computer lab
- 1. More hands-on training to learn various new computer programs. 2. Training on computer equipment, such as how to know what to do if a computer will not reboot. 3. How to develop computer based lesson plans and activities.
- 1. teach us how to do effective searches 2. how to use technology with support along the way- without support it can all fall apart 3. powerpoint
- I know how to build a computer and I know how to use a computer. My biggest problem is not professional development but having student access to the computers.
- Instruction in using Dream Weaver software for Web development and Paintshop.
- I would like to use technology more with my students but feel it is useless many times, because of not being able to get access to a computer lab when we need it.
- More time to work with teachers in my field.
- 1) More training on use of subject specific technology - science CBL equipment 2) Access to funding to purchase what technology stuff *I* need for my class, not what someone else thinks I need 3) Access to higher end technology equipment for subject matter
- Learning new information in my field of study New up-to-date text books with computer activities A Broad view of all Life Skills classes taught in WV
- More staff development in writing across the curriculum
- 1- Time Management 2- Integrating Productivity Tools into the curriculum 3- Motivation
- SAS, Marco Polo, & Compass
- Teachers need to use the computers adequately. The computers need to be working and up-dated.
- I need training in power point presentations and the equipment to utilize power point. I would like to have at least 2 computers on-line in my classroom the students may use.
- 1. Use of Technical Education programs. 2. Self Diagnostic Skill with Technology 3. Use of Poower Point Presentations in Classroom

- curriculum enhancement technology class management
- Use of databases and spreadsheets
- 1. How to develop online evaluation for students as is now used in college. Students can take their exams online, the computer grades them and emails scores to the professor. 2. First aid and emergency procedures/ How to deal with a crisis situation involving a school. 3. How to develp funding for school programs.
- 1.Equipment trouble shooting 2.Latest technology 3.Integratng technology into the curriculum
- Hands on learning teaching techniques Research based highly effective teaching strategies
- More technology training Funds for classroom materials More computer software
- technology professional development technology onsite help technology integration
- How to integrate technology into the cirriculum How to use technology Understanding the new education lingo.
- Time to use the technology to make lesson plans Enough time to implement and finish lesson plans Availibility when I need it
- more tech. instruction on Excel more money for materials for learning stations more technology based testing
- trouble-shooting, use of spreadsheets, ?
- 1. More time with sofware before we are to implement and use it regularly. 2. Programs to implement that have already had "the bugs worked out." 3. Options: because one set of software programs will work for one teacher, it may not work for everyone. Teachers are more likely to implement a program that works in thier particular circumstances. Something that works well in Webster County may not be appropriate for Kanawha County due to diversities and demographics.
- Excell training
- How to include all that is expected to be taught in a day that is already much too long for young children How to organize classrooms that are too small
- Integrating technology into instruction; Newest technology introduced yearly and how that technolgy can be used in the classroom--such as SmartBoards; projectors; handheld computers;
- Integrating technology into the curriculum. Access and use of new technology as it becomes available.
- 1) Integrating technology w/current curriculum
- I would like more training in spread sheet and excel. I do not feel competent to assist students in developing spreadsheets. Most excel workshops were only an hour in length and didn't provide enough followup to use. I would like more training in navigation of desktop etc.
- Intergration of technology throughout the curriculium Using technology to benchmark student progress Overview of technology resources for teachers and students
- Time Clear obtainable goal (again, less applications, more in-depth) Time
- 1. Better/more use of technology to match and meet individual needs and levels of learners in all areas of the curriculum. 2. Slower pace and separate in-depth learning of each program available on the computer instead of trying to learn all programs in one session. 3. Using technology to meet content standards other than or along with the

technology standards.

- 1) Use of technology with classroom instruction. 2) Technology as a management tool... ie: excel, outlook, handhelds.
- Basic computer repair skills (for teachers throughout the school) Basic computer use (for teachers throughout the school)
- 1. Accessing resources on the Internet and strategies for incorporating them into classroom instruction. 2. Providing time for teachers to learn to confidently use the technology we already have for instruction and assessment. 3. Using technology to improve efficiency in maintaining records of student progress and communicating with others.
- 1. More access to the computer lab. 2. More up-to-date computers. 3. Training that is useful for my curriculum.
- 1. Access to trainings, cooperatives & equipment to better insure that I am up-to-date on content, colleagiality and technology to make my work in my content areas the best it can be for my students. 2. Professional activities and events that highlight my professionalism in my work areas. (conferences, etc. that lend credibility to the term 'professional' when used with my career) 3. Dialogue with others in my areas that enhance and refine my practices and procedures. There seems to be little or no time in which to work with people in my content areas.
- instruction in use of new technology, e.g. interactive white boards, etc. integration of technology in my classroom - how to make better use of it more time to use technology with students
- Effective leadership training for administrators Effective role training requirement for all board members Economic development training for all administrators
- 1. Help with specific software. 2. Using digital cameras and the computer. 3. Using scanners, whiteboards, etc.
- For our school as a whole, I would say good, hands-on instruction during the summer with compensation in: WVEIS, GradeQuick, and the online sites that are available to teachers. Trying to do this in the days before shool starts is too overwhelming for new teachers and frustrating when teachers really need time in their rooms to get ready for their students. We could use some of the non-student days later in the year -- just not those days before school starts.
- Time! Money to purchase equipment that is updated Use of technology by all staff
- 1. Continued staff development on changing technological developments. 2. Assessment tools 3. Cool websites for educators (as well as the uncool "i-know" website)
- I would just like the equipment to function.
- Every teacher is at a different level in their use of technology, as a result professional development needs are very hard to determine.
- Technology Classroom management Understanding by Design
- 1. Time to present development to my staff. 2. Time to prepare development for my staff. 3. Time to assist my staff in utilzing Internet resources.
- 1. Pre-K hands on and practical ideas 2. Computer training for my age of children 3. training to better use internet as a resource
- 1. TIME 2. support of trained personel 3. equipment
- 1. Integrating technology with curriculum, i.e project based learning, using graphing

software, best practices in the use of technology for learning 2. using technology for classroom management: grades, record keeping, etc (teachers should have one good computer for their desks to use solely for this purpose) 3. Locating appropriate internet resources in a timely manner

- Affordable Masters program Time Paid Training
- Using technology in the classroom. How to effectively meet the requirements of the CSOs. Classroom Management
- 1. more staff development on power point 2. more staff development on working on using the white board projection screen in conjunction with the moniter 3. web sites for quick teacher reference
- Basic computer troubleshooting, so we can do some of our own tech support. Updates and antivirus software, spyware and spam-help. Grant writing for new equipment.
- 1) Having computers that are not 5 years old- 2) Having computers that dont have problems every other day that prevent me from using them- 3) Having a maintenance crew that actually doesn't take 4 weeks to get to you to even LOOK at your problem computers-
- 1. Accessing web-sites that pertain to all classes. 2. Technology as a tool for organization.
- Adequate technology maintenance and support at each school or professional development on maintenance. Professional development in the MS Word, Excel and Powerpoint. Classroom technology management imbeded staff development.
- Trouble shooting computer problems Classroom management Developing lesson from the Internet
- 1. Proper equipment maintenance and support 2. Technology person that does not teach classes and knows their field. 3. More time to plan, research, and prepare.
- Time to communicate and share with the teachers in the county that are teaching the same courses.
- cross-curricular training common subject sessions (subject related training) classroom management sessions
- Adequate technolgy training.
- 1. Administrator who are educational leaders--not superintendents that get raises for passing bond levies--but who inspire teachers. I shouldn't have to call my administrator to come visit my class room to see what my students are doing. Their priority should not be new doors. It should be making every one the best they can be in that school. I have seen one administrator do that. I was wonderful. 2. Professional training that is relevant to my specific needs. I usually have a training after school the day before the professional days. On my time after I have worked a full day. The next one is already scheduled for May 10. We have an ISE day on April 29 but we can't use it.
- More time to practice/use skills learned in training. More time to help others develop their skills. Updated equipment/programs to use.
- Inspiration software program incorporation into the lesson. Online testing and running reports of the results. Microsoft Access
- Help with new web based plans, etc. required by the state. Extra training in all the WVEIS applications. Extensive training in word, Excel, etc.
- 1. Incorporating Different Types Of Technology 2. Presentations Programs (Powerpoint 3. Incorporating Internet Into Lessons

- How to develop teacher web pages Integrating technology into the curriculum Educational use of the Internet
- troubleshooting
- Motivating students Getting parents to help at home
- Learning xcel
- More training on Compass Lab
- 1. GradeQuick 2. Technology training pertaining to use in the elem. classroom 3. Internet opportunities
- 1. Power point 2. Office 2000 3. Music Software
- Microsoft Excel Power Point Web Pages
- Alternate Assessment for Achievement Testing-Special Ed. Behavorial Modifications for MI Class Online testing evaluations
- The computers should be assigned by cost effectiveness. Teachers' should have access to printer's that would reduce the amount of time spent on classroom preparation. Classroom computers and computers in the lab should be updated for speed. Filters and walls are essential for the students to be able to utilize the internet as a learning tool. Substitutes should be trained in the correct usage of the internet.
- Online grade book Troubleshooting-How to correct simple errrors myself Speedier hookups
- better software, more computers in my room, method to lock out unauthorized use
- Followup on all professional development; at this time we attend them but then they are generally forgotten.
- How to motivate students
- Trouble shooting problems Curriculum for teaching primary students the basic computer skills.
- Computer trouble shooting
- Social Studies and Science content co-curricular with the computer.
- Social studies teaching Language/grammat Art
- Reading Good websites Writing skills
- More training for spreadsheets Integrate the new math adoption for better student and teacher success.
- online resources power-point correcting simple problems
- 1. Classroom Management 2. Motivating Students 3. Integrating other disciplines into Writing (I teach Language Arts and would often like to incorporate other disciplines to get topics and writing purposes, but am unsure of how to proceed.)
- In order to be more profficient with technology we need to find funding in order to update and to purchase the technology equipment that the state feels we must have. We need decent printers, digital cameras and some new computers. We have computers sitting in our class rooms that are so antiquated that they might as well not be there. We have digital cameras, but no printers
- 1) How to use 1 computer for a class of 20 students. 2) How to find the time to incorporate the computer time with all the CSOs to cover. 3) What software is availble to use in my subject area - most is to high level for my students.
- Keeping current with the uses of technology in the classroom.

- 1. A wider variety of technology resources such as document cameras, digital camera, and updated computers. 2. Time or technology to work with other teachers across the state who teach the same course that I do. 3. More time to put into practice the technology I have learned.
- Technology/curriculum integration
- More time for planning/grade-level communication Practical staff development More $$ for additional library books for emergent readers (in the classroom)
- Accessto online testing as DIBLES. Ongoing training to keep in step with technology. Power point training.
- informal assessment training along with class management techniques to use during computer gradebook that also does report cards using our grading system dealing with students with behavior problems in the classroom
- Learning to use an interactive whiteboard. Utilizing a computer grading program more effectively and efficiently.
- More time to actually use the computer and learn ways to enhance our lesson plans. I know the technology is out there but I don't have enough time to prepare and explore the web. Using website for communication with parents and students.
- Time to develop, design & incorporate technology more in the classroom. Time to network with others on way to intergrate the use of technology in classroom instruction & management Time to learn how to operate and/or run specifice equipment (i.e. PDA, Data Projectors, Scanner, ect) and software
- 1. I need more time for planning. This would allow for deeper planning which would allow for more use of technology, among other things. It would allow me more time to explore possibilities for my children. This time needs to be a long block of time. Perhaps one whole day each month or even one half day each month dedicated just to planning, not to any other planned inservice. 2. I would like to have more opportunities to share ideas with other kindergarten and early childhood teachers and to actually observe other teachers in their classrooms. 3. This may not seem like professional development, but I think it's good, once in a while, to just have an opportunity to hear a great motivational speaker. Just for the energy! Thanks for asking!
- I have been trained on the use of Excell, but never given the time to really feel comfortable using it. I have made two PowerPoint presentations and used them (one to teach a workshop and one at K Orientation) but each time I need one it is major because I don't know enough or have the time to practice what I know. I always need assistance from the tech team and that frustrates me because I have taken many classes in technology. I don't use half the tools available on the computer because I don't remember how and it takes too long to try to figure it out again. Again, I need time to practice and apply new tasks. TIME is the key!
- 1. how to use technology to track student progress in the CSO's. 2. how to make student assignments using technology 3. how to do more things with email, scanning, using the videocamera, preparing and printing my own documents
- 1. Time to provide the professional development that is required in addition to the professional development needed for local school needs. 2. Funding to deliver staff development that is truly meaningful to teachers and that would motivate them to be the best they can be. 3. Capability to deliver motivating speakers to grassroots people in education.
- how to use technology equipment to present lessons (data projectors, lap tops, etc.) how to incorporate lessons using technology how to set up portfolios and assessments

for students using technology

- UNDERSTANING IF DIFFERENTIATING THE CURRICULEM. PROFICIENT AND USE OF EDLINE. USE OF INTERNET AND RELATED SOURCE ON COMPUTERS TO PREPAE THE COURSE OF STUDY RELATED TO CSO'S/
- a new computer, printer, and support equipment for teachers in the classroom! a lab that has ALL computers working WITH headsets that work for an entire class each time we go! TIME for teachers to access the internet and search for lessons/activities to support our teaching! (elementary teachers must have a longer, uninterrupted planning period to catch up with technology!
- None. I am retiring.
- Computers for each child,a computer lab large enough to hold all kids and less required subjects on any given day so we had the time to teach computers or research materials and topics and information.
- Training on Excel, and Access
- Instructional strategies that are teacher and student oriented. Time to work with teachers on technology. Reaching more parents through technology.
- Lesson Plans on the computer Professional development for the use of ED Line Power Point Presentations
- 1) Use of technology to connect with other classes not offered in my county. 2) Getting students to use wireless computers. 3) Finding new ways to use the internet to teach.
- 1. Use of computer programs (Power Point, spreadsheet, etc) 2. Behavior C ontrol
- Too much time is wasted in meetings such as these.
- Managing a Novell 6.5 Network Using GroupWise 6.5 for Staff Collaboration Incorporating Technology into the School Guidance Program
- 1. Ongoing training for troubleshooting, common problems, & using software tools like M.S.Office. 2. Regular & adequate time to review, preview, & reaquaint self with software.
- 1. classroom management skills 2. tech training 3. curriculum development
- 1. More time to hone tech skills 2. More time to organize files 3. More time to meet within departments
- Productivity tools. Troubleshooting techniques. Timely onsite support (curriculum and hardware)
- Computers that work A Tech person who is available daily Staff Development with computers usage
-
- Time to work on the older computers.
- Training for each faculty member Computers for each faculty member Release time for training
- Training on whiteboards Training on intergration of technology into lessons Training on student tracking and grading software
- I would like to learn to use planning software that comes with the various textbooks, and how to hook that softward into the network. I would like to be able to choose the order of lessons, either Compass or basal text lessons, to reinforce what I am teaching in the classroom, instead of a random order. I know how to do that with Compass now, but it takes time that I just don't have. I would also like to use computer-generated

activities to help with IMA and IRA testing.

- 1) Opportunities to attend out of state conferences with nationally known speakers 2) CUrriculum and materials available 3) Pay raises that reflect the time and hard work of teaching!
- Attendance online to help the secretary.
- 1. Time to meet these demands. 2. More planning time. 3. More time to teach, less time on paperwork.
- Time to work with parents Time to keep organized Time to communicate with colleagues
- Adequate time to use technology Support personnel Training and time to plan implementation of technology
- 1. More inservice related to my social studies curriculum 2. better equipment 3. on site help
- Appropriate technology (hardware/software) fo my teaching areas. Time to learn how to use the technology Time to learn how to use the new social studies textbooks and supplement. Time to chart students work. Time to organize material for the various so that class will flow in a logical sequence. Information to keep current of legal issues.
- 1. smart board training 2.troubleshooting training 3.more internet training
- *internet access for more than one classroom computer *keyboarding skills *more thorough training in Excel and Misrosoft Word
- 1. using smart board 2. using technology for formative assessment 3. better technology use for special education record-keeping tasks
- 1. Training in maintaining computers to maximize student use. 2. Time to integrate technology into every facet of instruction 3. Access to high speed connection at home.
- 1. How to fix computer problems 2. Release time to fix and learn 3. Money to buy better computers
- TIME to share with others who have already developed units and projects TIME to develop my own projects to be used in my classroom. Equipment that works!!
- training on new software - ie - grade quick, skills bank etc. proper usage of word, works, publisher basic computer knowledge
- SUCCESS Funds need to be open to all vendors--No Contract! Full-time tech person at each large school so teachers can teach instead of worry about network! Bandwidth needs to be allocated for classroom use first! Ongoing, meaningful professional development for tech.
- 1. Training for digitizing commerical embroidery designs. 2. Training for Microsoft Office, Excel, etc. 3. Updates on basics for word processing
- Effective integration of technology in the classroom Using technology to improve basic skills Using technology with students to reduce paper
- 1.Scheduled release time for learning with technology. 2.More interaction with other media specialists. 3.Availability of a computer lab to use with students.
- 1. Use & Integration of MS-Office Suite 2. New products (SAS, I-Know, GradeQuick, etc) 3. New techniques
- We need more training on the use of computers and ideas to incorporate computers with our lessons when we do not always have access to get to use the computer lab. We need more computer labs and computers in the classroom. We also need smart

boards in every classroom.

- 1. We need training to migrate as technology changes. I teach C++ computer programming classes, and the AP test has changed to JAVA. I have not received any training in JAVA that would be necessary to teach that class and prepare students for college. 2. We need release time during the year for sustained, meaningful prof dev, not just a 2 hour one-time shot about multiculturalism or bullying. 3. We need administrators who are committed to prof dev as a tool to improve instruction, and not just a requirement to check off.
- How to manage the Westest results - charting, etc. on the computer. Wireless communication How to get it Any suggestions on how to go about improving technology
- 1. Update of new technologies that can be used in our schools.
- More up to date technology in the classroom Computer access for students More computes for students to do activities on
- 1. Classroom managment techniques 2. SAS/School Kit 3. writing
- Using graphing calculators in the classroom Computer gradebook with ability to generate progress reports Use of manipulatives in the classroom
- Information about retirement. Information about sick/maternity/paternity leave. How and when to file a grievance.
- Parent Involvement Ideas
- Learning more about technology, learning effective ways to teach reading, teaching reading in middle school
- Laptop computer with capabilities to connect to WVEIS at all of the three schools that I service. Data projector (portable) to use in the classroom. Training with Palm and the capabilities that it has.
- -Easier access and availability of continuing education classes - it is too difficult to find out about class availability -More relevant and useful staff development on ISE/Faculty Senate days
- teaching strategies effective communication
- 1. Test data analysis 2. Time management 3. Student records
- 1.Methods for integrating computers into Elementary General Music 2.Available software for Elementary General Music 3.Grant writing and other funding sources for computer equipment and software for Elementary General Music Classes
- I feel adequately trained in technology. I really need time to plan and implement the technology. I will be teaching new subjects next year (science 6 & 7). I'd like to get some specialized training in science technology.
- Time to conduct the training. Scheduling of the training. Meaningful training.
- 1. Highly focused integration of technology in the classroom 2. Indepth curriculum alignment with technology reinforcement 3. Student assessment techniques using various technology based assessments
- I am very involved in Technology, I just need more training on repairs and troubleshooting. I use and help other teachers use technology daily and feel it is needly badly. However, if we don't have someone devoted to keeping all the tech tools running!
- Subject-specific integration of technology into curriculum.
- I have completed graduate courses in Eucational Technology Leadership. Everyone can

always use new ideas for using techology in the classroom.

- 1. Time management--how I could possibly get through the CSO's in one school year while doing a good job of teaching the material. 2. Introduction to good, relevant resources to use in my classroom. 3. Teaching character education.
- 1. Training on the implementation of any new programs being introduced in my school/county 2. Effective techniques/best practices for integrating technology into the curriculum 3. Intense refresher course in Microsoft Office products such as Word, Excel, Access, Publisher, etc.
- Classroom organization skills Standards-based lessons Differentiated instruction
- Technology curriculum incorporation School wide technology program Meeting individual needs
- I just need more time!!
- Hotmail returned to the classroom. Support staff for maintaining and implementing technology in my classroom. Time to achieve my goals.
- Latest research in my field New approaches to thematic work Teacher cooperation/collaboration needs
- Dragon Fly and all latest technological advances that will be used in business
- Truly, in reference to technology, a great deal of the support and education is impeded by lack of sufficient and reliable computer labs.
- I would like to see informative workshops pertaining to English- (grammar, writing, and literature) held in the summer as there has been with AIMS and other math and science activities. I would like for teachers to be able to visit other classrooms or schools where innovative ways of learning English is being taught.
- use of technology for on-line assessments how to intgrate websites and activities in the classroom when computers are limited
- GPS training Training for work with students who do not want to learn. Stress management training
- continued education on ways to seamlessly integrate technology into the curriculum as a learning tool for students
- 1. Computers that work at all times equipped with microphones for kindergarteners to use. 2. Technical support personnel readily available. 3. Up to date computers and technology.
- Parents who value education as much as thay value children playing sports. Administrators who will back teachers and treat them as professionals. Respect, once again, becoming a valued part of our society.
- 1. A computer on my desk. 2. A tech teacher to help bring tech into the curriculum and to teach the students tech skills. 3. Overtime pay for the extra time I will be spending to keep up with Edline.
- 1. technology-only because I'm not very good with technology, but I want professional development that applies to my grade level. Most of what I've had cannot be done with kindergarten.
- ESL
- We are using the Fast Forward program in my special needs classes but as far as actual on line programs we do not use the internet. As far as professional dev. I feel that special needs instructors need assistance in finding sights for our lower functioning

children to log on to for remediation.

- Productivity software (use of Word, Excel, PowerPoint,etc) integration of net sites to curriculum matching technology to standards (CSOs, NETS, NETT)
- More release time for learning technology and research. Teachers having their own computers. Time to explore current programs.
- To learn more about the WVEIS system.
- Skills that show how technology can meet current curricular needs; not just how the technology meets any curricular needs. I'm tired of programs that show me neat things to do with technology that cannot be adapted to my lower level math courses. It's great that students can do these things -- but I need to concentrate my curricular time on items that will be tested and measured by WestTest and ACT.
- 1. Assistance with integrating technology and curriculum. 2. Palm pilot and collecting data with probes. 3. Website development
- trouble shooting
- Troubleshooting Nothing else.
- Writing Process Technology (Keeping current)
- When I try to use the simple word processing, students do not have enough time to complete at school with the lab in use for BENCHMARK/SUCCESS requirements. Typing skills for students are mimimal which adds to the frustration of students. Time constraints of core teachers to get the CSOs taught for the 'test' prohibit them from exploring uses of technology to be used in their classrooms. A single lab does not meet these expectations. PD needs to concentrate on this area of classroom management of student stations and CSOs for core teachers.
- How to use Acess better, More information about using servers, How to network within a building.
- 1. Getting time to work with the programs that we have available to the students. 2. Time to look at new educational programs. 3. Training in more ways to use technology in my classroom
- Creative Writing software for primary grades since our basic skills were removed from our computers. Hook up for teachers at their desks for a laptop computer guardian on the computers so that the teachers don't have to worry about the primary kids being on the computers
- 1. Ways to get teachers/staff even MORE on board with the full integration of technology. 2. Learning about new technology as it develops--for educational use. 3. Networking troubleshooting
- what new tools are coming out how to incorporate those tools release to develop collaboratively with other grade level teachers how to make it work
- 1) Time w/o students to incorporate technolgy programs. 2) Release time at least 1/2 day to work w/on site staff person to incorporate/learn programs of technology. 3) Opportunities for college credit for all professionals (not just teachers): teachers, nurses, speech pathologists, etc.
- I would like to recieve more training on WVEIS and more opprotunities for working with the other schools in my county and colaborating on ways of handling/controling issues/situations with people who do the same job as I. I think consistancy is an issue and could easily be addressed if we had time to set down and work together. The third would be professional development on how to work effectively with administrators. I think it can be very difficult working with administrators and trying to get your ideas

and other teachers/faculty ideas across to administrators. Most of the time it is what the administrator says, goes.

- 1. Actual art -based software/state of the art equipment 2..Training in actual art software specifically; adobe illustrator, photoshop, flash, (animation /digital based software,) 3. Our county has overall been good about letting us meet as an art group to do art training. However, we could use more time to do this, and have tech training in art to match our goals and keep up with other states. 4. Continued support for State training with State Art Education Association, who is savvy on upcoming technologies and trends; that is where i hear about most of the new trends etc, such as Marco Polo (not from my county so much as the state).
- 1. Classroom activities using 3 computers with 20-25 students. 2. Palm Zire 72 activities and use in the classroom. 3. Internet sites for computer lab activities.
- 1 - Time & support for the effective/efficient use of Edline & Grade Quick 2 - Approriate and effective/efficient technology use for the classroom with only 5 computers 3 - Time & support for the effective/efficient use of available internet resources
- Time to practice what has been thrown at me. Without time, I can not implement the techniques presented to me in staff development.
- online transcript exchange a computer fast enough to work with WVEIS
- New ideas for integration of technology w/ lessons Learn how to use Access or other spreadsheet program Learn more about Excel
- 1. Time 2. Money 3. Instruction
- high yield instructional strategies classroom management
- Method of earning a doctorate from an out-of-state university. More in-depth knowledge of the latest on brain research for adolescents. Time to plan in-service programs for colleagues concerning teaching/learning strategies.
- Knowledge on how to reach todays student, it is difficult to compete with the students' fast pace life style. Creating lessons that are not so time consuming yet fun and interactive. Using lap top computers for teaching strategies.
- I am quite often the provider of professional development, both at school and at the county level. I enjoy learning about technology and lack only the time to explore my interests to my hearts content. So, needs are: 1. Time to play around 2. Money for more toys
- New software - time to learn. Time Time There is so much out there but not enough time to sort through it.
- *Continued updates on technology integration *Video conferencing *Advanced productivity applications such as Adobe Professional and fill forms in Adobe and Word
- Strategies for meeting the needs of struggling learners in reading and math. Strategies for differentiating instruction. Strategies for implementing a comprehensive, spiraling writing curriculum K-5.
- financial support for software to enhance classroom instruction
- use of technology in classroom use of technology for grades use of technology for planning
- Need help with discipline New ways to incorporate lab activities into the classroom Increase reading in the classroom
- Professional development that addresses technology specific to my teaching field (health). In many instances technology presentations are not useful to most fields of

teaching, they are too broad or are only relevant to specific fields, such as reading, math, social studies.

- The use of the computer in the classroom. Knowledge of New and Up Comming research. Student awareness.
- Repeat insevices for email, gradebooks, seeting up a cllassroom web page.
- use of projector set up set up computers in 5 min. between class and have it work
- 1. To attend a regional conference every year. 2. To improve my computer skills. 3. To learn more instructional activities that are interesting and fun for the students.
- 1. Coaching training 2. Deeper knowledge of online teacher resources 3. Training in Excel
- 1. Chemistry safety and management. (or, if this question is restricted to technology, I feel adequately prepared in all areas.)
- To have time to work on the things needed to incorporate computers into the curriculum. To have the up to date technology to use. To have all the trainiing development.
- Discovery of ways to implement technology in the curriculum. Technology teaching strategies that match up with CSO's and make my life easier!
- 1. Technology integration in the classroom 2. Classroom Management 3. Making technology more accessable for students with special needs
- standards based mathematics
- Use of handheld computers in the classroom Advanced Office applications Online assessment techniques
- Finding Technology resources to enhance the curriculum. How to work as a team. Dealing with students and their personal issues.
- 1. Time to plan the use of technology in my classroom. 2. Instruction on use of programs available to teachers. 3. "Team" time - time for teachers of similar areas to collaborate and develop technology related plans and activities.
- 1. Using ed line. 2. Using video projectors with external speakers. 3. Incorporating internet into lesson plans and curriculum.
- Using digital video for instruction and student projects Web page design Using online assessment
- 1. Technology troubleshooting 2. Inservice to update skills and learn of new programs
- Computer Software awareness of new computer programs
- Making web-based learning sites to coordinate with instruction Tele-Conferencing with other students and teachers Using technology in writing
- Have a technician available all day at our school. Have newer computers for students to use with our programs. Have time to work with students as they have the need for help.
- In our county, professional development is usually very timely. My need is the time and energy to participate, when I'm not trying to stay on top of everything else that must be done.
- Training on how to incorporate technology into the classrooms Training on research based strategies to use in classrooms Training on using guided reading
- Compass reinforcement Dibels instruction Troubleshooting technology

- Intergration of technology within the classroom (must have hardware and software) Basic use of technology Positive demostrations of how to use technology in the classroom
- 1.) More science inquiry workshops to enhance labs. 2.) More technology (digital probes similar to ones available from Vernier) 3.) More funds to attend workshops/conventions that are pertinent to my field (chemistry) that may or may not be in the state.
- 1. Palm use and technology 2. Curriculum integration
- On using projectors, etc. On using better digital cameras
- Integrating technology using research based instructional strategies utilizing on-line resources keyboarding
- * education to improve my computer skills *upgraded computer to access programs I personally own which facilitates my job skills *wireless internet to promote access to WVEIS
- Learning New Software Available for Education (esp Elementary) Learning to Use BASIC Skills and other software currently on my computers Using Digital Cameras in the classroom
- 1. I need to be trained in Dreamweaver for professional development and to set up East Hardy High School's web page. 2. More InSTEP-type programs that give all teachers an incentive to learn to use tech tools [not just science, math, business (me) & computer teachers (me)]. 3. More training in uploading, downloading, e-mailing and printing digital camera pictures.
- I need to learn how to plan better for the next two weeks. I don't use the textbook due to its inability to cover the CSO's. I spend a great deal of time researching my content on the internet and in other textbooks that I am rarely planned more than two days ahead. I make up all my own test since I use a hodgepodge of information to cover the CSOs. I would love better access to other WV teachers and what they use to cover these---Frederick Cty MD has websites where they have posted plans to cover their standards. I would also like access to worksheets and perhaps test of other willing teachers. It would have to be monitored for valuable information though.
- 1. Learning more about using WVEIS 2. Using powerpoint for presentations
- Strategies to differentiate instruction Ways to use assessment to drive instruction Available on line assessments
- Westest practice problems Classroom management Inclusion Strategies
- GradeQuick usage
- 1. More time to plan for actual teaching as a lot of time is spent tracking students, paperwork not related to teaching at all. Lost time having to fill out paperwork for disruptive students and then tracking to be sure handled in a timely fashion. 2. Newer books as our books are l986 editions in the business department--some of them.
- time management
- mide interface technology
- My major issue is having professional development that applies to my needs as a Speech Pathologist. So many professional development courses are for classroom teachers that have NOTHING to do with what I do and aren't worth my time to attend them.
- use of File MAker Pro website development more time to use current skills and

technologyh

- 1. I need more computers in my classroom. I have three computers for ten students. 2. I need a computer that is separate from those that are for student use. I am not comfortable keeping my grade and IEP on the student computers even though these programs are password protected. 3. I need more time and training to get better at it.
- Music software Grading programs county communications with others in same subject area
- Information on the general operation of a computer The use of computers as classroom tool The integration of computers into student/classroom work
- 1. Trouble shooting 2. New technologies 3. Effective curricular integration
- Keeping abreast of new technology Training on mentoring others Network training to trobleshoot network problems
- 1. Adequate computers and instruction for how to integrate them in the regular classroom with 25 students.
- Using technology in the classroom Making powerpoint presentations (advanced) Updated technology and its uses
- Enhancement of basic computer skills Specific training in the use of technology in my content area (music)
- Power point usage publishing- to create various items finding reliable internet resources for students to use
- Knowing what the programs in i-class do
- Meeting the academic needs of special needs children. Providing benchmarks for mastery of CSOs. Stream line data collection of assessments.
- More training in technilogy integration in the classroom
- Cross-curricular activities Writing strategies Technology activities
- Adequate supplies Adequate space Healthy environment
- If you are addressing the issue of technology, I would like to see professional development in the area of using technology to give presentations for parent programs. I would like to have professional development on effective ways to use the computer to enhance student learning. I would also like to see a course taught on using the Learning Village.
- How to integrate instruction of all the required CSO's into the time that we have. How do you get it all done???
- The volume of excellent educational programs is impossible for me as teacher to review and determine what the best is. Marco polio is start however when I search lesson topic and get 200 hits OUCH. Time to learn best practices with technology in my content field and improve my curriculum for my students. Focus on content use of technology. I would like more information on teaching strategies with technology.
- formal paid time for any and all tech related classroom usage adaptions
- Knowing how to discipline classroom behaviors, knowing school, county, and state policies, and ?
- 1. Communication tips to use with students and coworkers 2. Classroom Management 3. Time management
- Classroom management Creative Teaching Improving Attendance

- Online Testing Instructions Using advanced tech such as video projectors.
- 1.Combining multi-media tasks in lessons 2.Better computers available to my students 3.Better qualified people maintaining our computers
- 1. More computers in my classroom. 2. An up-to-date computer for ME to use. Now, I have a very out of date computer compared to other teachers in my building, although they have less knowledge in computers, they have building seniority. 3. Teachers need to trained in ppt. ALL my students must deliver presentations using ppt, and most teachers in my school do not have knowledge in how to do this.
- I would like more time to spend to search the net for valueable information. I also feel you need more than 2 or 3 computers to use in a classroom to be effective.
- 1. Web designing 2. Web/video conferencing 3. Networking
- Problem solving skills for students Technology training for all educators and service presonnel
- More hands-on experience to understand the workings of the computer. Classes that specifically target using technology in my field (art) Classroom management training.
- Creative ways to enhance and enrich Social Studies team teaching with other disciplines to enhance both subjects access on to online grading
- Training on more complex behavior problems of the students these days. More time for planning. More assistance with special education students.
- 1. Increased bandwidth. 2. More computer labs in order to have more accessibility. 3. Training that is slow-paced to ensure understanding.
- Training with a smaller group. More sessions continually throughout the year. Training sessions available for all teachers, not a select few.
- Online professional development. Technology degree from universities in WV offered online. Technology integration.
- larger band width
- building and maintaining a web site technology--maintenance of hardware and software how to write a grant
- Using wireless technology (bluetooth, etc.) Keeping updated use of technolgoy that has proven to be successful. Lasted uses of technology.
- 1. Teachers have not been certified or trained to work with ALL students. We need survival skills, professional support until we have a better level of comfort/success. 2. Training on how to streamline many of the daily mundane activities that take away from instructional time. 3 Behavior manage-ment training. Student behavior is becoming more difficult to manage. There is little administrative support. We need an on-site person to give support, to provide supervision for student who are totally disruptive and out of control.
- 1/ Better infrastructure 2/ More Skilled Computer Technicians & money for parts 3/ The programs the state has need to function properly
- 1. More training on designing web pages. 2. More time to help other teachers in my building. 3. More training on network administration.
- I need training in the use of ebooks, eportfolios, epublishing. I need exposure to the latest technology innovations; I know nothing about the advantages of wireless access to the Internet. I need training/access to distance learning opportunities.
- 1.All curriculum areas need to develop adequate web-sites for student and teacher

access. 2.Time for curriculum development in my own classroom appropriate to my needs. 3.The state department needs to help local school districts in getting an attendance policy that will help the attendance issues in schools.

- 1. More time to prepare for the online testing on Microsoft Office. We have to press to get through all the lessons and try to be prepared for the online Technology test in May. 2. Time for techology 'extra uses' in my classroom with students. 3. A website such as "iknow" that assists Business classes. 4. ANYTHING for Business classes. 5. Professional development that helps us fit in and is not mostly catered to the major classes.
- 1) I need to know how to use technology. I can't use it effectively if I don't know how to use it to begin with. 2) I need to have technology support in that when I don't know how to do something, someone can answer my questions. 3) I need to have the technology working properly at all times--we need people employed to solve these problems at every school so we don't have to wait days and weeks.
- access to computers/internet in classroom all computers removed from classroom which had been in use need computer to do report cards
- More computer/technology training offered to ALL teachers throughout the school. More professional training for specific subject areas. More overall opportunities for professional development for teachers!
- Networking with other professionals Preparing materials for class Taking on-line classes
- 1. release time for learning with technology 2. an onsite person to help with technology 3. adequate mainyenance and support
- Time in the school day to research, prepare, and complete technology related lessons, lesson plans, grades, activities, etc. After 30 years, I am tired of all the extra time I must give up to complete school-related work at home and am never compensated for. Upgraded technology, software, and support Classroom computers
- Online testing training
- We were all trained to use the Microsoft Powerpoint and the like but now have Lotussuite instead. More training on my special need students. Training on the actual mechanics and wiring that would be helpful toknow when trying to switch from one kind on tech.
- I need more time to work in my classroom . I already have a multitude of professional development through Reading First.
- 1. periodical research data base 2. university library access 3. WV teacher share lesson plans
- I need more experience with computers and need to get one for home I feel that I am not up to date with computer technology I feel that with a large school we need more than one lab-one on each wing
- 1. Access to more extensive training on all software programs
- We need adequate training sessions for the new electronic grade books which will soon be required. A symposia machine that is hooked to the internet and which projects to a screen. A set of laptops for my classroom, hopefully without all of the problems associated with our current portable lab-- a tangled mess of wires, constantly being knocked off lines, laptops which have not been charged, etc.
- Training in the PRACTICAL use of available technology for instructional purposes. Most training operates under an assumption that classrooms/labs have computers for every child, and daily access to laptops, projectors and other presentation equipment.

Instruction in troubleshooting when problems arise while computers are being used. Give me this staff development and adequate equipment and I will be able to use technology.

- Time to plan Time to learn new strategies Time to evaluate success of myself and my students
- More time to be able to work on the computor without scheduling conflicts.
- 1. Training on Effective Discipline/ Behavior Management for School/Classroom 2. Guided Reading/Four Block Model 3. Technology Programs for Classroom Instruction
- 1. inclusion strategies 2. focused learning strategies 3. WESTEST activities for enhancement
- Technology Classroom Strategies west test
- Planning time- not including trips to drop off students for resource and also minus time for return pick-up. This takes at least 10 minutes. Also, bells ringing all through the day for Middle school are heard by all elementary students. This disrupts class.
- 1) time to learn to improve use of technology my classroom 2) Many of our computers are so locked down that even technology teachers to not have access to their computer systems. Sercurity is keeping our computers from being used. 3) Use of technology in withnin our content area of COS
- (1) Enhanced web page design (2) Doctoral program in my RESA (3) WVEIS update workshops (annually)
- Assisting teachers with the effective use of technology as an instructional tool. Up to date equipment with adequate maintenance and a replacement cycle (every 4 years). Adequate inservice on changes, updates, innovations in technology. Increased band width for faster access to the Internet.
- classroom management planning more lessons with technology
- Help with e-mail help with internet options more WVEIS training
- How wireless system work in the classroom. How to use this old equipment How to get funds to improve our out dated technology
- 1. Updated web page design training. 2. Updated camera for web page 3. Updated technology training as new products come out.
- Time to take workshops and classes. Time to practice what is learned and implement.
- more use of workshops on internet research
- More Integration techniques More time to surf and use sites***
- How to integrate more technology in Physical Education. Training to help teachers use the technology they already have. A computer Lab at our school!
- How to integrate Kindergarten and technology better. Grading on a computer- Kindergarten level. Trouble shooting techniques.
- Advanced Microsoft Office Integrating with PDA's Broadcasting Program for students
- Formative Assessments Differentiated Instructioon Professional Development involving new technology
- 1. How to incorporate technology when you only have access to 2 computers on a regular basis. 2. How to get students to understand that computers can be used for other things besides playing games and e-mail 3. Time to use technology.
- 1. More technology training. 2. Motivational techniques to increase student learning. 3.

Classroom management.

- 1. advanced computer use
- Since technology is changing so quickly, professional development for existing and changing technology would be beneficial.
- higher levels of computer training-I have mastered basic and most average things that professional development handles
- Time Management Student led technology teams or clubs Meeting the needs of the staff to keep them up to date
- Computerized assessment tools Bridging gap between home/school with technology Improving communications with staff/admin/parents
- Power Point Generating Forms Microsoft Word
- 1. troubleshooting strategies 2. using software for test taking skills 3. office helps such as Word, Excel (grade averaging)
- more technology training
- Working with computer networks Troubleshooting computer problems Creating computer based lessons
- Web site creation
- -more equipment is the main need
- 1. The use of technology in the pre-k and kindergarten level. 2. The use of power point in the pre-k and kindergarten level.
- Palm Pilot training Access trainin g
- 1. technology and how to integrate in the classroom 2. reading 3. math

Appendix C

- PDAs usage and incorporating into the curriculum
- Online testing at an affordable price or free.
- java script while designing webpages
- Have time to peruse what is available and try out new programs to see what might be useable in individual classrooms.
- Teacher web pages ---making them student and parent friendly
- Use of spreadsheets. Computer maintenance for optimum performance.
- I have attended numerous technology training conferences. I feel I am well trained and cannot think of anything more I can learn about. I would like more training in using the Internet with middle school students. I love the SAS web site but it is mostly for High School students.
- exemplary programs or student projects in technology
- application of Frontpage
- Web page development.
- robots and computer software
- How to use the internet more effectively in the classroom?
- E - Mail Web Pages
- The top Educational websites.
- Practical programs for teachers to use with special education students at the middle school level.
- HOW AND WHY DO COMPUTERS WORK?
- Ideas for more integration of technology int he classroom
- Budgeting for Technology tommorrow
- curriculum based learning tools
- Palm Pilot uses programs for more efficient use of time for adminstrators
- Technological methods addressing: *students' needs for timed reading practice *students' needs for building basic knowledge through computer enhanced virtual 'travel' which is unavailable to low SES students (schemata) *students' needs for high interest/low vocabulary reading practice aimed at improving written vocabulary through read and respond methods (thereby improving leisure reading level and motivation to read non-required materials)
- Wireless technologies
- powerpoint
- Advanced use of the computer and more ideas of ways to incorporate the computer into a math class.
- As secretary of the school, I could use technology help for payroll, Microsoft Office enhancement, etc.
- Practical use of newer technology--not just using the internet.
- Ways to incorporate technology into the classroom that have been tested are useable.
- Incorporating multiple technologies into the curriculum.

- Posting essential questions based on the WV content standards on my school's website so teachers can better meet the required standards in science by using good websites, etc. There is way too much material to cover, so the best should be introduced to teachers.
- Al though I have had students go to web sites that present content material, and read it, and answer questions before moving on to the next paragraph (Homeroom.com, skillstutor), they showed no increase in knowledge. They did no better on the test on questions on these topics than on book topics. I would like to see how to fix this! They enjoyed the on line material, said they liked it, thought it worthwhile, but the test did not back this up.
- Mathematics using technology.
- Excel, Access, Outlook
- Lesson planning incorporating the various technologies listed above. There are so many wonderful opportunities for teachers and students. Teachers need time to develop these into teaching units.
- How to better integrate technology with classroom instruction
- How to do spreadsheets
- power point tips use of spreadsheets file sharing
- How to integrate technology in the classroom
- Using Technology to boost achievement in low SES students
- How to organize activities for a class of 27 or 30 students to make effective, efficient use of only 5 classroom computers
- 1. What new & free software is available for my content area. 2. What Web sites would enhance my content area. 3. How to use technogly more effectively in my classroom. 4. How to protect myself & students from unwanted sitesn & security measures. 5. Stop pop up sites and other time wasting advertising.
- Using microscopes
- Variety of successful classroom integration ideas and projects that are occurring throughout the state.
- websites that help students with basic skills
- Keeping computers clean & running for the entire school. Server maintenance.
- How to find more time for tech in the classroom.
- Using user-friendly technology in the classroom
- Learn about any new activities available.
- How to create internet based learning activities.
- How to incorporate technology in my classroom more effectively and efficiently.
- How to locate and apply for grants to obtain new technology for the students.
- Web development
- I would like training in the programs we now have. some of the current software has been on the server for two years and the students still can't use them. This is due to the fact that we have no instructions for their use.
- Using SAS in lesson planning, etc.
- The need to have the Technology Education curriculum manditory for all Middle school

students.

- Use of alternate Operating Systems as a possibility in the classroom to save money (e.g. Linux)
- Information about the subject area that I am currently teaching
- I would be interested in knowing how to problem solve certain technology problems.
- Using Technology Tools with students (not just a computer) such as a Handheld Computer (Palm), Whiteboard, Digital Camera, and Software
- Linux
- Power Point and LCD projectors
- Ways for teachers to use computers with students and as a teachers resource.
- I would be most interested in finding additional source of cash for purchasing computers and matrials to repair and upgrade existing hardware.
- strategies to use in the classroom
- Linking technology to effective classroom practice
- How to use computers for testing of students. This would free up teachers from grading for hours in the evenings and weekends. If I could develop an on-line test using a program that also grades the work and then emails the scores, my time spent grading these papers could then be better spent.
- Technology integration across the curriculum
- Microsoft Word programs such as powerpoint, excel Some basic training just to operate computers. For example, the computer freezes, can't log-on, program disappears, can't find a program
- Problem Solving and Solutions
- Topic specifically related to higher level math. Show how design a unit to integrate technology in conjunction with standards based learning guaranteeing that learner outcomes will be obtained.
- Anything that is beneficial to have and use
- I'd like more information on Microsoft Excel.
- spreadsheets
- Reaching Technology goals on a limited technology budget.
- Is prolonged computer by youngchilden appropriate and safe?
- The latest and greatest technology tools.....and how they work!
- Integration of technology to enhance student learning as well as being provided with the technology when applicable.
- Web-site creation
- Hands on, in depth workshops, with authentic material that we will use in our own classroom.
- New technology opportunities for teachers and students
- How to help students attain keyboarding skills
- There's so much 'stuff', technologically speaking, out there. How do you distinguish the good stuff from the fluff?
- Training in the newest technologies available at the time

- Web-page development and maintenance.
- Online portfolios. Some colleges and more advanced school systems have turned to doing most work online. A main server keeps folders on all students, and teachers have them do work and keep it on the server. The program(s) allow teachers to access, edit, make notes, etc. to work without changing the original work, allowing students to do his/her own fixes, while maintaining records of work and progress.
- integration of technology in a writing curriculum
- Improvement of writing and language skills through computer applications
- Powerpoint software
- Detailed, hands-on instruction in the use of a palm pilot. Detailed, hands-on instructin in the use of a GPS system. Technology lesson plans that have been field tested with students and revamped and that we know will work.
- uses for elementary / primary classes
- Assessment and Planning tools
- Effective uses of technology in the classroom for instruction with only a few computers available. Effective uses of technology for teacher support ie electronic gradebooks, programs on palms for teachers etc
- I am not sure.
- Using computers with Pre-K students
- Integration of Technology to Enhance Education
- Project based learning
- How to effectively utilize technology in the classroom.
- I'm not sure
- How to obtain grants for technology equipment.
- More advanced technological concepts for those of us who are very computer literate-
- Trouble shooting
- Adequate technology maintenance and support that I can do to keep the computers up and running at all times!
- Keyboarding skills.
- How to implement SAS to its full potential. Using other online courseware.
- math instruction
- More interactive, topic specific sites. More effective ways to research and prepare technology based lessons and how best to impliment them.
- computer lab management
- Wireless technology implimentation
- Creating and maintaining Webpages Creating and maintaining Teacher pages on Websites Creating folders and sub folders. Microsoft Excel More tricks to enhance use of Microsoft Word.
- Ideas or examples of lessons that incorporate technology. How to use my classroom computers more efficiently. How to best use my Computer Lab time to get the maximum lesson time for my students
- Technology use for West Virginia Administrator in using the new on-line five year

strategic plan.

- Presentation Programs
- Useful applications for social studies
- Developing teacher web pages
- not sure
- Use of powerpoint
- Using Technology in the Music Classroom.
- Excel
- Better knowlwdge of usage concerning Special Ed.
- Cklassroom supplements, skill tests, enrichment activities. Interesting games for the students to learn the content standards.
- Online gradebook
- gps/gis
- Using different types of technology together in the classroom. Step by step with instructions
- How to manage grades on the computer
- Curriculum ideas Plans for teaching basic computer skills
- Any topic as long as I have time to practice it.
- Spread sheets
- Program development
- Practical ways to integrate technology throughout the curriculum with limited resources.
- Learning how to use word processing and adding clip art.
- Power point Spreadsheets Data bases
- New technolohy that has recently been released.
- New tech ideas to be used in classroom
- I would like to attend a seminar/meeting that dealt with how to keep the internet safe. By this, I mean how to keep students from happening onto inappropriate sites. No matter how careful we are about teaching them which sites to use or how good we think our firewall is, inappropriate materials still filter through from time to time.
- A would like to have more addresses for websites that students can use for Language Arts.
- How to integrate technology in the classroom with limited numbers.
- How to add videos and sound to PowerPoint.
- Integration of technology into the curriculum Web page design Network troubleshooting Previews of good software for elementary students
- Classroom websites (?) Resources for professional development
- USe of integration of technology within the classroom setting. Use of power point presentations and integration of data with the power point.
- using internet with low level readers or previewing good websites
- effective use of time for the computers in the classroom
- Innovative strategies and web sites for educators to incorporate into curriculum

- Just more information about using computers in the classroom. I think there are always more ways!
- Keeping records in the classroom! Assessments, supplies, communication to parents, graphs to use for projects,etc. Basically, how a teacher can use technology to help run the classroom smoothly and effeciently.
- Windows XP how it works and how to work it.
- developing a database for mastery of the CSO's
- Virtual school information and opportunities to ask questions of providers.
- Easy, effective lessons using techonlogy in the classroom
- USE OF PPALM PILOTS AND DIBELS
- I don't need the lessons as much as I need a WORKING/RELIABLE computer and the time to develop the skills I already have!
- More practice on Riverdeep
- More integration ideas
- Availability of websites that show teachers how to incorporate technology into the curriculum without spending hours online to find or develop the tools.
- Power Point Presentation Lesson Plans on the computer
- Younger student friendly website building.
- PowerPoint
- Combatting SpyWare in the school environment
- Troubleshooting
- Creative uses for Tech in the music classroom.
- Curriculum integration of technology.
- Review and practice using Basic Skills and Riverdeep Practice in using technologies listed above
- working with novell 6.1
- Whiteboard training
- Methods and materials for integration of writing in the inclusive elementary classroom
- How to monitor online plagerism.
- Use of Digital cameras
- use of basic programs - refresher courses.
- I am interested in learning more about using a white board, data projector, powerpoint and just time actually using a laptop or computer that has XP since most teachers are use to doing Windows 95 or 98.
- How to get teachers involved in internet usage.
- I would like to have presented the knowledge of how to use one or two computers effectively in a classroom.
- Using technology to help us differentiate instruction in a fair and equitable way -- also, using the technology to help keep track of performance on differentiated tasks.
- //effective maintainance of computers with Deep Freeze software
- 1. Simple computer fixes 2. Help with grants to get new tech tools and upgrades 3.

How to get the most out of your equipment 4. More projects that integrate technology with subject matter.

- A conference with others in my subject area who use technology and can share success stories and units has ALWAYS been my plea.
- what new technology is out there and where to get it.
- On-line Science Activities--Not just lesson plans but interactive activities that students can manipulate with immediate results.
- Training on how to design and present Power Point
- Utilizing technology integration specialist to make the teachers moe comfortable with technology in the classroom. Effectively using computers in the classroom.
- Ideas to use with students to research or use the Internet in class.
- Technology Integration across the curriculum.
- I would want more information on each of the program listed above. I would also want to have access to use the computers while learning about the programs, just being told about it is not enough.
- Network Security/Administrator Issues as teachers in the buildings are the ones who are actually network administrators. This is a full-time position in private industry where the employer sends employees for training almost every year. We are left out to dry by the county/state.
- How to go about getting up-to-date equipment for my particular school.
- new and affordable technologies that can be used in our schools
- More ways to use technology effectively in the classroom
- reading education
- Basics and use of computer programs
- Graphing calculators in the classroom
- I would like more information on available technology grants and grant writing.
- Student-Oriented activites using computers in Elementary General Music Classrooms.
- New technologies or old ones in Science education for middle school teachers
- How to incorporate technology into the curriculum, websites and software that I could use in my classroom, and how we can obtain more technology equipment and software.
- Methods of integration in the classroom
- How to write educational programs for computers.
- Software for gradebook
- I would like more information on software programs to strengthen the middle school curriculum.
- Subject-specific integration of technology into curriculum
- Incorporating CSO's into lesson plans
- CSO's and technology.
- Online Grading systems
- I would like to have information on the latest technology inventions and how they relate to education - not in a "perfect world" but how they can most effectively be put to practical use in an elementary school in WV, knowing our very limited financial

resources.

- Using technology to differentiate instruction
- Daily incorporation of technology in curriculum.
- Basic, informal, down to earth problem and trouble-shooting session.
- Wireless technology
- Simple ways to build students abilities in typing, serachingh internet, assessing internet sites, and plagarism concepts
- Electronic Portfolios-Web Development
- How to troubleshoot when dealing with the different aspects of technology
- graphing calculators, use of graphing calculators, integration of websites into lesson plans, calender of lesson plans for assignments on web page for a certain amount of time, ability to download documents for study guides for students.
- GPS training
- Ways to integrate basic programs for problem solving activities without purchasing expensive software
- Lessons that are easier for kindergarteners to use.
- unsure
- Technology for special needs children
- How con the WVEIS system be better used for scheduling.
- Shouldn't this answer be the same as Question #16??????
- A workshop on fixing computer crashes
- interactive sites to match units and enhance skills
- How to fix computers yourselves. It is very difficult to continue to do all of the things the state requires when the equipment does not always function the way you want to.
- Lesson ideas for incorporating technology into daily plans
- Palm pilot technology Networking "for Dummies"
- a refresher course on Basic Skills
- Something for appropriate for the primary grades
- I would like to attend presentations related to more use of handheld computers, interactive whiteboards, data projectors, digital cameras, movie makers.
- what new tools are coming out how to incorporate those tools release to develop collaboratively with other grade level teachers how to make it work
- I would rather the on site technology person attend & then present at our school programs we need to incorportate.
- To discuss what is new & hot on the market right now.
- Graphic arts; training in adobe illustrator, photoshop, flash, and a chance to actually obtain the software.
- Palm Zire 72 use in the school system and classroom. Updating Reinvent web sites. I have one, but need a review to keeping things current.
- appropriate,effective/efficient internet sources & resources for use with students
- Ideas to use in the classroom with elementary students

- Microsoft access troubleshooting way too often no one is available to help only certain people get attention when needed
- Hand held computer training for administrators
- Lessons for integration of technology w/reading/writing I want to learn how to make an individual web page that could be accessed by students and teachers and show what is going on in my classroom.
- Using Technology in the classroom - teach us what is available and how to navigate through the above technologies.
- How to use the Internet in the classroom when there are only one or two computers available.
- Not sure.
- Effective ways to help teachers see the "big picture" of technology integration, i.e., as an effective method of delivery curriculum, not an add on.
- Effective integration of technology in daily instruction.
- Edline and grade quick
- websites with science activities
- Technology that will directly help teach my students.
- download digital pictures palms and ways to use in classroom
- Web page design.
- Classroom applications for handheld computers - targeting assessment
- Chemical inventory and safety with database or specialized software.
- Online testing and evaluation
- I would like to know how to best utilize the 5 computers I have in my classroom. I have trouble with time management. There are 5 computers and 26 students and I can't always use the computer lab for projects.
- I would like to learn more about using advanced applications of Office products for teacher organization and student learning.
- Finding resources on the internet
- How to integrate technology into a lesson with efficiency. Prep time is valuable and integration is not always something that can be done easily. Someone that knows how to integrate efficiently would be valuable to all teachers.
- Strategies for incorporating the Internet into the curriculum.
- Using digital Video in the classroom
- Trouble shooting the simple problems
- New software for teaching children
- Making your own web page to be used in your classroom
- Basically how to hook up and add programs.
- I want to hear from other teachers who are doing the same job I do, but using technology to make it more efficient.
- Technology use in classroom--how to use what you have
- Step by step guide to problem solving networking problems
- How to integrate technology into the classroom

- How to utilize the digital probes in data collection for science classes.
- How to incorporate technology into curriculum
- How to integrate technology into the Elementary Classroom
- Using technology incorporating math and science.
- The necessity of teaching correct keyboarding techniques and teaching students the best, most efficient ways to create typewritten documents.
- Enough time to work with the technology, to become proficient with it. It is really good when we have to use it in a way which we would use it in the classroom or require our students to use it.
- Update of the uses of WVEIS (hands on experience)
- Classroom Management and Inclusion
- MarcoPolo
- Until our money is spent on better computers and faster internet capabilities, a technology conference will not do me much goodl
- power point
- How to get monies to fund NEW (not hand-me-downs) equipment for Special Education.
- database & grading programs
- The integration of computers into classroom activities
- How to get the maximum benefit out of classroom computers
- Powerpoint presentations for the classroom
- Power point usage publishing- to create various items finding reliable internet resources for students to use
- online testing
- Use of laptop computers for individual student instruction
- Activities which relate to English teaching
- How to use the computer to enhance student learning.
- Integrating technology instruction into the classroom
- Online testing Interactive teacher - student web pages
- Improve learning for all students with technology. Science curriculum enhanced through technology.
- manipulation of XP
- How to use Word without all the errors and changes it tries to do on it's own. I highly dislike for that.
- Hands-on training of software - Access
- Practical ways (with actual examples) to integrate technology in the classroom.
- Combining multi-media presentations in powerpoint
- FUNDING for additional computers.
- Web Design, Web Converencing
- Topics related to engineering and manufacturing software
- Troubleshooting and repair

- How educators with limited computers and time can enhance the learing of our students
- How to use the technology to motivate the students to achieve rather than just get through the assignment or just copy it off the next student.
- Training in the IKnow website - indepth.
- I-know training and more sessions. Compass Lab needs to meet the levels of learning at the correct grade. It also needs to meet the concerns of other core subject.
- Technology integration training
- how to build a web site
- Wireless technology / Internet.
- Not sure...my problem is access for students during the instructional day... I would like to learn how to write a grant so I could get a Smart Board for instruction in my classes
- Proper maintenance of the computers and their assessories
- How to employ the latest technology innovations in the classroom - I attended a session at William and Mary's Gifted Conference in March presented by Del Siegle from the University of Connecticut on this topic, which left me eage to learn more. He is an excellent presentor.
- I usually attend and learn somrthing, but do not have the time to practice , so I can implement the learning.the skill, so I find myself loosing the skill. I need time to practice.
- A topic that covers how to compress knowledge quickly and efficiently to prepare for online technology testing. In other words, how do I efficiently prepare regular ed and special ed students at the same level, at different paces, to help them all be prepared for an online test. I follow IEPs and monitor students, yet I feel like I'm not teaching effectively for preparation. I would like to be a much better teacher and feel that I do a better job.
- Show me the various educational web sites. Show me how 30 students can use 24 computers and still stay on track to cover the material that I am held accountable for the students knowing for testing purposes. Tell me where I should place importance--technology instruction or testing.
- worksheets testing/scoring cross-curricular integration in subject matter
- More uses of Microsoft office (i.e. word, powerpoint etc.)
- Using Power Point
- basis skills
- Middle School Math and Technology Integration Standards Based Math and Technology Integration
- Online assessment
- Using PowerPoint for effective classroom instruction
- Digital cameras music and animation how to "upload"
- basic computer programs for kindergarten through second grade for reading, spelling, and math
- 1. Use of powerpoint 2. Conference on use of Accelerated Reader Math and Vocabulary
- The pros and cons of trying to teach world languages in a "virtual classroom". (This is not a good plan at all. Students don't really learn. You need a teacher there in the room!)

- PRACTICAL use of limited equipment and infrastructure.
- I would like to become more at ease with setting up wireless technology in a traditional classroom. Often the set up time wastes valuable instruction time. The focus becomes the equipment rather than the instruction.
- I would like to have actual practice time to learn to use all the information that has been thrown at us.
- Most any of the above listed programs. I am not familiar with some of those programs.
- Educational Programs to help with the WESTEST and Informal Math and Reading Assessments for elementary students
- curriculum development and enhancement
- Power Point
- Management of Compass
- Use of technology in content area. Example the best practices of teaching techniques in science, Math, english and social studies.
- Advanced web page design with a focus on HTML
- The area I would be interested in would depend on the audience. For example administrators do not necessarily need the same information as teachers. The highest priority for me is the effective use of technology for my teachers and an accountabilty (printable) for the students.
- using technology to be better readers
- using e-mails effectively with list servs etc.
- Have classroom teacher show how they are using technology in their classrooms. What software programs are working.
- Updated Web page designing
- All . . . any. I am on a waiting list to get into a digital photography class.
- new software available
- I would like help in Power Point and Adobe
- Technolgoy in Physical Education, Use of Digital cameras
- Friendly sites for Kindergarten students.
- Online Assessment School Web Pages Project Based Learning Activities Interactive Classes for Students in Rural areas
- Assessment using technology
- How to find the time to incorporate technology into the curriculum. It is so hard to do when there are so many demands on your time.
- Power Point
- shortcuts for using the computer more efficiently
- Palms or PDAs technology new technology
- intergrating technology into everyday lessons
- Technology Integration Using Palms in the classroom Student technology teams
- Technology based assessment tools for the classroom
- Power Point Microsoft Word

- Integration of technology into core curriculum
- more technology training
- Seamless integration of technology into the classroom.
- classroom personal responders
- creative student activities/lessons on the computer
- I would like to see more information on the use of computers and resources in the pre-k and kindergarten levels.
- I would like to see / hear presentaitons on how to integrate technology in the classroom with my core subjects and the content standards.

Appendix D

- As an educator I feel it is very important for all of the new teachers coming into the system to be able to incorporate technology into their teaching strategies. Some new teachers have more information than when I began in 1996, but they still need much more to make their teaching more efficient. All teachers should be able to assess using the Internet or software programs that enable us to meet the students' needs. Technology is so important in the workplace today and in the future that we MUST be certain that our students leave the public school system with as much knowledge and use of technology as we can supply. Teachers need personal PDAs, updated software, updated computers, as well as the knowledge that is necessary to retain electronic portfolios for their students. Assessments that require the students to test online is now the norm and students need to be familiar with computers for this to be a success. Our school is pretty up to date in most of these but that was accomplished only after great work by teachers and a grant from the WV Legislature, Senate President Earl R. Tomblin and Senator Tracy Dempsey. Now we must find the time in our curriculum where we are not just surviving the test, but using our resources to make it all come together.
- We need technology people that are accessible. I have tried for three years to get two computers hooked to the internet. I have two dead (new) computers and no one available to repair or get them up and going.
- Make sure all teachers have needed technology.
- Even if there are technology/computer labs in the building, we as individual teachers do not have time to go in there and work to develop our skills. The best way to develop skills is to have a computer at your work station and use it daily. In my school, our principal has instituted an inter-building type of email where we have other teachers in our address book and we communicate with each other in this manner. It is wonderful and keeps us informed. However, those teachers who do not have a computer in their room are hindered by only being able to check and see what is going on during their plan or outside of school hours. This within the building communication has been great.
- I find that most teachers don't have enough time to use technology more in the classroom. They need help from other teachers or some type of resource, resource person, student assistants or anything or any body to help and assist. We have a great number of our students that have much more knowledge of technology than our teachers. Why not tap into that resource and allow these advanced students to help teach teachers along with their peers. Software to use the technology available that we have now is a must. I have been using technology in the classroom for 20 years and I know from experience that the students are in tune with computers and discipline problems are almost non existent when the students are actively engaged with a computer.
- First we need new classroom computers, the ones we have have windows 95. Second, the classrooms need to be set up to more technology friendly....some don't have enough plugins, some don't have screens for overheads. It would be nice to have everything built in and recessed so it would take up less space. Third, internet access at school has to be speeded up. Fourth, there needs to be workshops presented (real ones) that provide us with the latest technology viewpoints and ideas on how to use these in the classroom.
- Our county needs to have a program for training staff in the basic use of technology and then moving up. Jackson County has some sort of agreement with Edventure to provide this and they earn new equipment for their classrooms as well. I would like to

see that program in Mason County or find out how we can get it, too. The biggest reason teachers do not make use of the computer lab is that they have not tried Internet lessons yet and we just got a lab that works. They need training very much. Teachers should be paid to come to training for technology. In science, our county schools need to invest in the computer based lab equipment such as Vernier. The students will be using this stuff in the colleges and business world. Our county does not have that equipment yet and it is needed for middle school as well as high school.

- To update the schools with new or newer labs.
- To create and support more student programs or projects that incorporate technology. For example, the SHARE (Students Helping All Reach Excellence) project selects the most technically literate students from a school and allows them to train others--peers, parents, teachers, administrators, community and business members. These after-school trainings are customized to meet the specific requests of the trainee and are done on a variety of topics--Microsoft Word, PowerPoint, Excel, FrontPage (web pages), Publisher, scanners, printers, digital cameras, PDAs, etc. The SHARE Trainers volunteer their time to do this service for the school and its learning community and receive nothing in return. The most appropriate support would be to fund a free summer camp that would provide training for these student trainers. The real beauty of this project is that it could easily be replicated in other schools thoughout the county and state. It simply needs support from the government to really take off and multiply the benefits for all involved. I created SHARE ten years ago and have written grants to obtain equipment for the project. However, no funding has been provided to spread the project on a state-wide level.
- The computers in most classes are extremely outdated. Even though many staff members have bought printers and other equipment, the computers are so archaic that they cannot be used with the newer equipment. I am very fortunate to work in a modern school that has Internet access in every classroom and this year I had my old computers replace. However, I know this is not the norm throughout the state. I do appreciate your efforts to enhance our technology usage as I feel this is a necessity for our student's future. I was dismayed to learn that Kanawha County is now reducing the length of computer education courses in high school because they feel students are already knowledgeable. What a huge step backwards! Perhaps the state could regulate this.
- Supply us with the needed equipment, provide training for those who are willing to learn, give us time to use the equipment and training with the students, and say good job when we accomplish these tasks.
- she needs to know that in the poorer counties, technology should be a top concern for students that don't have access at home.
- Teachers need more staff development to be trained to be able to use technology more effectively in the classroom.
- I would like to tell Mrs Manchin that we need to have least five computers in our classroom. Also the program with the Success computers needs to include the sixth grade. The other grades in the middle school have five computers in their rooms.E
- More computers in the classroom.
- no comment
- My students need more access to updated computers. We get 1 or 2 times a month in the compass lab, and then it often does not work. My 4 classroom computers are outdated. Success computers have never been provided to the 6th grade classrooms. We get the leftovers when the success computers are updated in the 7th and 8th grade

classrooms. The compass lab is supposed to take the place of the success computers for our students, yet we have little access to them ,and no say in scheduling the compass lab as needed. It will be worse next year when the lab will be open to the entire school. There is no printer access in my classroom. I used faculty senate funds to purchase a printer, but the computers are so old it will not work.

- I feel that if my students had access to a lab with enough computers so that every student would have one would be a tremendous help. Also if the computers were updated would be an asset.
- WE NEED TO WORRY LESS ABOUT PLAYING WITH COMPUTERS AND MORE ABOUT STUDENT'S ABILITY TO THINK AND RETAIN KNOWLEDGE. A CHILD THAT DOES NOT KNOW THEIR MULTIPLICATION TABLES DOES NOT NEED TO USE A COMPUTER. SOME THINGS WE NEED TO JUST KNOW.
- Each school needs a technology person that can help assist teachers. Teachers need one week before opening of school with students present to be able to work up lessons using the computers. There needs to be more computers available at school during the course of the year.
- Provide our schools with more funding so that more computers can be purchased. Our students need to be able to use technology to compete for jobs later in life.
- I would like to tell her it is time that West Virginia came about and instead of putting the cart before the horse with technology, it is time that West Virginia placed the cart behind the horse and educate not only teachers, but parents and students so that the learning process will be complete
- If teachers had a laptop computer in their rooms they could show more power points and teach curriculum much easier. Teachers have a hard time getting the computers to work properly due to slow internet service. I think it is time for the classrooms to have more available computers and have more technology available.
- give teachers enough computers to use, not 4 per computer
- Reading and Math should always be the top priority in what we do each day, but we need to find ways to incorporate technology within these areas to make the teaching even more effective so that the student achievement is positively affected.
- 1. Make sure that there is funding for tech support personnel. 2. Scrap the old computers that have 64 bit memory. 3. Provide training that is mandatory for all new teachers which must be 'passed' (not just attended) prior to being hired. 4. Provide required, QUALITY, inservice, for teachers. (Teachers should be tested to determine their level of capability. Then, receive the training appropriate to their skill level.)
- Provide funding for on-site technology specialists at every school to take care of computers and software and not be responsible for teaching classes.
- time off to attend training
- I would like to say that every school, every classroom, is not treated the same when it comes to technology. Too many classrooms have outdated computers sitting in them that the students never use because of the time it takes to get them up and running. Classrooms with 27 students can't possibly wait for 2 computers in any one class period. The students usually need help, which requires the teacher's attention, leaving the remaining students unsupervised. I know it would be impossible for each classroom to have as many as 10 computers, but is 5 too much to as for.
- I personally think that Technology Education classes offered in the middle schools should be a required class. Students are exposed to a variety of different technologies used in the private sector. Everything from Aerospace to Robotics are covered. This

exposes the students to different areas of studies they might want to persue.

- From the oldest high school in Putnam County, our students should be entitled to the same advantages that the other students in the county; new computer labs, more accessible servers and the many other things that new equipment and updated buildings bring children.
- Teachers need the time to learn how to utilize the new technology. Teachers are in so many places in their comfort level, it is difficult to take classes that are appropriate. Summer is an ideal time and programs like InSTEP have been great.
- I am the Technology Specialist for Clay Elem. and the grant should be for 2 years at a time. I feel that I'm just now getting my fellow teachers to feel comfortable with me helping them and now the grant is almost over. Elementary teachers are to busy to learn new programs and don't have the time to play with programs and computers. I think I have made great strides to help teachers with different programs and to get the teachers to try different technology activities.
- We need funding for new computers. I have 17 computers in my classroom that are becoming increasing more difficult to use. Most of my computers are at least 5 years old. I need new computers, but do not know where the funding will come from. 100% of my program depends upon these computers.
- More money allocated to keep hardware current.
- Sadly, if I could say one thing to help with the use of technology...it would be the word "upgrade".... I am speaking from a school that does not even have cable access in the 8th grade classrooms. For our students in WV to be competitive in the workworld they need the latest technology in the classroom to enter college at an equal level with other students not behind them. Learning new software in the classroom that is already out of date nullifies their advantage. Access to new technology with hardware able to support it..., running and in good order, with support close at hand would be the most effective way to bring our technology inspirations up to par...
- I would like to see schools have up-to-date computers, so students can take the required tests, save their work, etc. in order to eleminate frustration for both students and teachers.
- If we have to use the wretched GradeSick, could we have the ability to do it at h ome by accessing the school site on our at-home computers? I now spend all my prep time doing grade sick, and have greatly decreased time to spend setting up class activities, which must really be done at school; IF you could get rid of bench mark testing, that would be great, and also the stupid essential questions. And also...but that is enough. thanks
- Time to plan and prepare technology focused lessons.
- We need to replenish Business Department computer classroom computers on a rotating basis such as every four years. Our classes should have up-to-date equipment that works properly. We are supposed to be the technology leaders of the building. However, we are given the old stuff and the new machines are put in school-wide labs that are used as internet search tools or writing labs. What a waste of good technology! Bill Gates said that our high school students are not learning the technology they need to and this will effect the future of this country. I agree. We need more money in the county budget to hire more techs. We put in work orders and it is months before they come over to fix the equipment. How can students learn on unusable computers. Computers are my sole means of curriculum delivery. We have one small high school in our county that does not even have a school-wide lab. Where is all the money going? High paid central office salaries!

- Thank you for asking, Mrs. Manchin. How encouraging it is to be asked to state my opinion as a teacher! I am blessed to work in a high school where technology has always been emphasized. Our current principal is completely committed to the use of technology by students, teachers, and all staff members. Kanawha County also offers training, but there is never enough time to implement the programs and develop plans which use them. We need time immediately to at least prepare a plan to utilize the program. Instead we hustle back to our classroooms and our busy schedules with good intentions. By the time we get to using the program(s), we need additional training. It is distressing to be shown something one time and then be expected to use it without practing it more than once or without being observed using it. Many of us learn by doing. I need practice with the programs. I feel like I am introduced to information, but I need to use it right then without being rushed. I need immediate practice to "own" a program and feel capable of using it well. Time on task is important. Thank you again. Spaxton@kcs.kana.k12.wv.us
- I have a data projector which I received as a stipend for participating in the Intel Teach to the Future class. The internet/network drop in my classroom is not in a place where I can effectively use the projector. It needs moved to a more appropriate place. The data projector also could be mounted in the ceiling for the most effective use. I also have asked for a white board over and over. I have a chalkboard and I am allergic to chalk! Putnam County won't purchase and install whiteboards for us. They want us to spend our own student allocation monies to purchase our own. They are hundreds of dollars. I could use the white board as a screen for the projector as well. The county also would not provide me with a new computer when the one in my classroom crashed. It was many years old. I had to use my allocations to purchase one myself. This took away from the money I could use for science materials which are very expensive and must be purchased every year.
- Technical support and assistance is key to running any computer-assisted programs. VERY frequent updating/supplanting of hardware and software is also equally important.
- Come visit the schools around the state to get a firsthand picture of the technology in schools. Have a technology committee that meets with you regularly to discuss possibilities--please include teachers, principals,central office administrators, and technologists. Establish a clearinghouse to identify and notify all schools of technology grants available and help us write them. Encourage legislators to dedicate significant money for k-12 education technology needs. Role model the effective and efficient use of technology in your role as first lady. Go after Bill Gates and other technology providers to donate money and hardware/software to our schools. Establish a statewide Technology Academy during the summer for students and teachers to attend to learn the latest and best technology available and how to use it for education. Establish awards (with money involved!) to recognize outstanding schools, teachers and students who use tecnology successfully to enhance academics.
- supply updated computers hire tech support person for each school
- Have more access Keep computers up and running
- Every teacher should have a laptop computer to use and also computers that are up to date for the children's use. We should have a computer specialist and someone to help with the technology problems that are encountered everyday. Each school should have a computer lab that is up to date.
- We need more computers and to restore the success budget
- Besides having the tools and professional development available, teachers who integrate technology well need to share what works at their grade level with others

around the state. Best practices and classroom management ideas are most helpful so teachers can return to their classroom and implement strategies. Immersive, hands-on experiences allow teachers to "take off their teacher hats" and learn technology before they have to integrate it into their classrooms.

- I find the iKnow website to be very user unfriendly. Only one question per printable page? Please. That is ridiculous. I need to access the questions quickly and be able to choose all the questions I want to use, not waste time printing the story out for every question I
- When we are shown these great websites, like Reinvent, Marco Polo, or Sas in School, we are not provided enough time to locate and adapt lessons appropriate for our classes and students. For example, we had a two-hour continuing education session on SASin School on the ISE day in March, four days before spring break. When we returned to school, computer labs in school were closed for two weeks for the state Online Writing Assessment. No one in the building was supposed to use Internet during that time to avoid delays in downloading writing prompts. Since the in-service, I have had no time to return to SAS in School, let alone use it with students. Continuing ed technology sessions must include time for teachers to develop lessons for use with their students. Computer repairs take too much time. Currently I have no teacher station in my classroom. A nearly-new computer was installed in here in November with nothing but problems; the problems continued to worsen until the county tech had to have it sent to the county office for diagnosis and repair. This was in January. I still have no computer.
- Please give all techer a pay raise! We can no longer live on the money we make so please do what you can. (If no raise how about giving all teachers free home internet service.) Also place more money for technology and teacher improvements in the county's hands. Offer mini-grants to educators that want to use technogy in their classrooms. Thank You for asking!
- Teachers have great expectations placed upon us to meet the students technology needs. We are supposed to teach all these skills and constantly use different programs, but a great percentage of the time our school and classroom computers are not working. Either the server is down, or our old computers are not able to do certain tasks. There have even been times when the middle school students have to do certain tests and the elementary schools can not use the internet to keep the system from crashing. Luckily I work in Putnam County and we do have more resources than some counties due to our ecomonics. Thankfully we also have Toyota's help and AEP in purchasing new computers. Our main problem is too few technology people working in the county to fix problems. We may wait up to 3 months for someone to finally come to fix our computers when they are down..
- It is important that teachers and all staff continue to receive professional development on emerging technologies and technology integration. It is also important that the legislature continue to fund (and increase funding) for technology in the schools. The BS/CE and SUCCESS funding has been cut the past two years, and the exisiting hardware in many schools is now outdated. It would also be helpful if school systems would receive funding for computers for teachers (not just for student usage). While teacher can use the same computers that students use, if they had a new (up-to-date) one "on their desk" to use they would be more likely to use it for day-to-day professional activities. Many are nervous about keeping grades or typing and saving tests & assignments on computers that students also use. If a teacher has a computer on their desk, it's usually one they've received by writting a grant, through donations from business (discarded) or older Windows 95 machines that are no longer used by students. Nothing on the survey mentions Video Conferencing distance learning. This is

something that we have been doing in our county and continue to do. Also -- do you know about the STARBASE project?

- We really need trained technicians to keep the machines we use running. Post High School programs could provide this input through Voc-tech training centers. There is a real demand and I'm not sure that kids are encouraged to consider this as a career path. Money, Money, Money - Many of our technicians are begin lured to the private sector because the pay is better.
- Provide us with more computers/computer labs.
- Have a tech person in each school to keep computers up and running.
- More working computers, or have a computer lab.
- I personally believe that each school, whether elementary or middle school, should be equipped with one working computer lab. Schools must first have the equipment to use and then teachers need more time for training and learning how to use the equipment.
- I feel the state is doing a great job and keep up the good work!
- We have lots of technology access in our school due to the SUCCESS initiative; however, we constantly need to refresh our computers - when the budget was cut several years ago, this hurt our refresh cycle. Please keep the funding consistent so that we can continue to keep our technology up-to-date!
- Please help us to have upgraded computers. We have a lot of knowledge as teaching professionals. We go to the lab in my class daily for 30 minutes. I plan instruction, but when the computers will not load the program I have asked students to use, then I must ask them to use something else that will work on their machine. Thus, they may be working but there is no continuity of instruction. We are less than we can be. Please know that we strive daily with what we have, but our kids deserve better to gain the skills necessary to gain employment with a good paying wage. Please help us to give quality to each precious child. Their parents trust and depend on us to educate their child. We all want our kids to work and pursue the American dream here in WV, the best state.
- The bigest improvement that can be made in the use of technology is to help us get it into the hands of the students. If my classroom had a wireless networked laptop computer for every student it would be more beneficial than the centralized labs that require you to sign up weeks in advance and predict where you will be on any given day. With laptops in the classroom, students can have access to interactive programs to assist in the learning process when they can not readily understand something. I could spend more time teaching with visual examples and could better reach students that are stuggling because education can become more individualized and students that have completed assignments can take online quizzes and view PowerPoint or video presentations of the next lesson without having to wait for the rest of the class to catch up. I teach mathematics as well as computer science and my students need me to teach them. However, they need computer access to help me individualize my instruction to meet their needs.
- We need monies alotted to adequately fund technology in our schools. We have old, outdated computers and operating systems (Windows 98) for the computers we are currently using.
- We can't use computers due to them being broken down. There is not enough techs in the county to keep all of them up and running. We teachers are treated as if we know nothing about computers and are locked of doing the simplest repairs.
- Give us more computers so that our students can use them for class assisnments.

Technology is wonderful if you can use it. Unless all my classes can use the lab on the same day to do the same assisgnment, it is meaningless.

- The State of West Virginia must become a leader in technology, not just the use of computers but the high tech careers that are offered in the Tech Ed curriculum. The state has in place a way to introduce Middle school students to areas such as Lasers/Fiber optics, Robotics, Aerospace/ Aero dynamics, Cad.Cnc And other areas yet this class is not State mandated, while art and music are. If this state is serious about it's future place in the Global Market it must require this in order for us to have a trained workforce. I would encourage you and the Governor to come to Hurricane Middle School to visit our Technology Eduaction Lab I'm sure Alta McDaniel from the State Dept. of Education would help arrange a visit. Or feel free to contact me David Miller 562 9271 or contact me drmiller@access.k12.wv.us Thank you for the chance to express my concerns.
- * Monies designated for technology could be better spent if the use of Linux were considered instead of Microsoft based program/products. Linux programs are free or close to it. * Improve the ability to share with the home environment access to the internet and decent computers. * Continue to require increasing levels of technology as part of classroom in teacher evaluations
- I have special needs students in my Keyboarding Classes. I would like to have special cumputers in the computer lab to meet their needs. Also, I would like to have training in this area of technology so that I can meet their needs.
- Provide more Technology to schools and the necessary equipment. Basically more money for technology at the school level.
- Thanks for your interest.
- Proper and up to date technology can make a teacher's lecture more acceptable for presentation to the students. Once a program, lesson, or lecture is developed, one would have the ability to save it for future use that is easily accessed and up-dated. It can't be lost or destroyed if properly saved on computers. I use my computer for saving recipes, lesson plans, invoices, student lists, schedules, grades, past events catered, and a multitude of things. If my computer dies, I am dead.
- Technology can only be effective if it is kept up to date!
- If I could name that one thing that just about every school needs to use technology effectively, I would have to say an onsite person to help with technology issues the arise day-to-day. This person would also be actively involved with other techs in the county to make all networks in the county work together.
- We need more modern computers. Ours are mainly outdated.
- Provide our teachers release time within the school year to become technologically proficient through quality staff development. Teachers are tired of spending their own time to attend trainings. If they have to be out with subs, then quality instruction is lost and principals get justifiably miffed. The legislature and WVDE need to realize that technology staff development are needed to make more effective teachers and learners. Days within the calendar need to be provided for this purpose...perhaps the First Lady can make this point for us.
- I have been successful in obtaining computers but not in getting labs and software upgraded. The idea seems to be that if you have a computer (regardless of its age or condition) you're using technology. Well, not so, I've done yearbooks and other publications for 30+ years and we struggle to stay updated so that students going on to college or to work can be trained on the software/media they will use in the "real"

world. I too need to be updated on the latest equipment and methods if I am to teach it to my students. At Hoover we have a full time tech (who we lose next year. No funding to keep her). LOri Whitt has been wonderful at teaching teacher, helping us to instruct our students on new programs, adapting paper lessons to the server, he talents go on an on. Every school should have someone who can help a staff keep pace. Nothing is more fustrating thatn to plan a seris of lessons only to have the computers go down and find out that we have to wait a week or more for it to been fixed. That messes up all your lessons plans, teacher lose time in and out of class and your morale is shot again.I love my job and my students. I work at a fast pace to get everything in the kids ask for. I can't do it if the equipment needed is to old, broken, down, or unavailable. I know that I worked very hard to get some lab tops donated (Rice and Bowles Law Firm donated) I allow students to check them out like a library book. Remember, there are no typewritiers now. Typing a paper is a major big deal if you don't own a computer or can't get to a lab during the school day. I think adding laptops to school libraries for checking out is a good thing. But the problem is no one will fix them as they age. Feel free to call me for further info. DEbi O'Dell, Herbert Hoover High School Clendenin WV 304-965-1871. Thanks

- Repair existing computers so that techers do not get frustrated trying to use them. Most of our computers are windows 95 or do not work properly.
- Put more funds in the state budget for computer training and maintainence for our school systems.
- We need more professional development with technology and we need more support for dealing with problems and usage.
- Make monies available to purchase the necessary technology equipment necessary to teach up to date information and also educate teachers and parents on how to use this technology. I feel budget cuts should not affect the quality of technology instructed.
- Education is the key. However, a classroom teacher's time is packed from AM to PM at school and most of us carry work home with us. Most of us are willing to do the work necessary to become enlightened but when would we fit it in. We must already attend workshops and other meetings during school time. Can we afford to lose more class time? I am willing to give up class time if I can gain something that will make me a better teacher. (This hasn't been the case of late; I feel as though I have wasted my time.) I have always believed that just because a person knows a subject, doesn't mean they can teach it. Teach us how to do the job at hand. Thank you. PS We may also need to think about ways to educate young parents who are not technology literate. Parents are our children's first teachers. Maybe there is someway to try to change the thinking of those who do not value an education.
- Make sure we have time to learn and become comfortable with it--it flows smoother when the teacher is aware of how things work Make projectors for presentations more available for classroom use. Schools need more labs so that classrooms can go more than once a week. I am only allowed to take two of my classes once a week--that is not enough Funding for software and maintanance needs to be increased. Teachers need wireless internet and laptops or blackberries to keep up with paperwork. Classrooms are not laid out to use projectors easily--laptops make that more feasible We are already overworked and underpaid--pushing technology on us withno time for practice or maintanence is pouring salt on an open wound.
- Let us not forget reading, writing, science, and mathematics. Do not forsake other elective areas of study such as music, art, and vocational education. Technology is great but it has become an all consuming issue.

- I think ALL teachers need required training whether they are afraid or not. Sometimes fear keeps teachers from using what is EXCELLENTfor our students.
- I would like more indepth training with each piece of new software or hardware being implemented and a smaller amount of new programs introduced each year. I would also like being give the option of implementing a program, instead of a demand. Homeroom.com and skillstudor are required in Kanawha County and this program, while useful, is terribly time consuming and slow (considering the bandwidth). It will be impossible to follow up on these requirements (at least 30 minutes per week) with only a 45 minute period of time and up to 30 other standars we must meet. Thank you for caring enough to ask, J. Klassen
- I have 20 students but the computer lab has only 15 computers which makes it difficult to take my class to the lab. In my classroom I have only one computer for 20 students so the students don't get much time. I have a laptop but it's for the exclusive use of a special needs student.
- Larger classrooms to put all the "stuff"!
- Maintenance of equipment is paramount to student utilization for educational purposes. Students enjoy the use of technology and are quite capable of learning through the use of such technology. There needs to be adequate amounts of computers placed within individual classrooms in order to maximize student use. Teachers need to be able to use the technology tools they purport.... I have participated for two summers in InSTEP professional development at Wheeling Jesuit University and have learned so much from this experience. I look forward to a third year. This kind of professional development is beneficial because not only is information given, but the technology tool itself is given to the participant so that he/she can practice using it during the weeklong session and beyond....I have learned to integrate the use of a handheld computer, a digital camera and other tools into the curriculum. It would be "awesome" if every teacher in WV possessed a laptop computer and was able to utilize it into the teaching process.
- Maintaining the equipment is vital to the successful use of technology in the classroom. As a facilitator of WV Virtual Schools Spanish, my students and I know having a slow connection speed impedes the lessons. Students have waited anywhere from 5-10 minutes trying to access the needed material for daily lessons. I have participated in two years of InSTEP training as well as completing Phase 9 training. Both of these profession development opportunities have benefitted myself and my students imensely. It is very important to have a technology tool in hand to learn how to use it to the fullest extent.
- For technology to be used more effectively it has to become a daily habit in the classroom and that is only possible if the teacher is totally confortable and committed to technology. Most of the workshops and trainings do not build comfort. Compass is not what I consider use of technology for everyday world. Every teacher needs a laptop and a means to project lessons; time to develop powerpoints, wireless access so they can present internet activities on a screen for an entire class or model data bases. Each school should have access to a technology teacher to assist and enhance classroom activities as well as provide immediate maintenance. Until our classrooms are as well equipped as successful businesses we are not providing WV kids with the skills they need for the future.
- Would like technological assistance in delivering core subject classes to small rural middle schools via technology
- I think I expressed myself in an earlier question, but thank you, Mrs. Manchin, for asking

- Allowance have to made in the school formula for hiring skilled technology personnel. Our school has three labs plus computers all over the school. We have one technology person for the entire county. Teachers don't have time or the knowledge to maintain labs or even their own computers.
- Technology "mentors" are needed to provide additional individual or small group learning and to give ongoing support for in-depth and nonthreatening learning of all the technology which teachers are now expected to know. After attending any class and learning new technology, unexpected problems always crop up, and sometimes a readily available "trouble shooter" is needed! (Many of us are simply overwhelmed with all that is expected of us.)
- Get faster internet connections in WV schools.
- We need more computers!!!!! Our school has one computer lab for all teachers to bring their classes to. The classrooms with computers in them (other than the technology classrooms) have at most 3 computers, which isn't nearly enough to do assignments on.
- We are rich in technology equipment, but experienced teachers are not confident with embracing technology as a routine instructional strategy. I believe there are several reasons for that obstacle. Here may be three: 1. To use technology well and confidently, teachers must invest time to learn how. I suspect many are not convinced that time invested will pay worthwhile dividends in time saved or in greatly enhanced student performance. Much of the research is conflicting. 2. Many experienced teachers lack confidence in using Internet technology for instruction when the stakes for student and school performance are so high. 3. Many teachers are not yet comfortable with assessing students and valuing assessments using Internet technology. With pressure to document student performance, I suspect those that do not know how to use the Internet will shy away from using technology as an assessment tool.
- More money to buy educational games for the students in the classroom would be very helpful. The students love to use these games on the computers. A staff person trained on-site to help daily with computer difficulites.
- I feel that while the use of technology is a necessity, I fear that so much emphasis is being placed on technology that other techniques are sometimes overlooked. I do not want to sound like a dinosaur, but some of the old time tested teaching methods have always worked and will continue to work and should not be overlooked for the sake of technology. I am afraid that often happens.
- Hire a tech person at every school using state money. Dedicate this money for this purpose only. One person with one free period a few times a week is not enough for all the tech support the teachers and students neeed.
- I do not teach a main content class. Technology, however, is the backbone of my students' work. Publications classes do all of their work on computers, as most of my gifted education students. I am always on a quest for new and better ways for using technology for my students, so they can better do and learn. I thirst for opportunities to see what other systems are doing, to learn about new technology and applications, to see what I can do and what can be done locally to make ours state of the art. Packaged programs and sites often meet the needs of basic content teachers, but there is so much more out there that deals with creatively designing your own venues for your students. I want to learn about those, to learn how to implement them, and to teach my students to use them in their learning processes.
- Teachers could use more time to work with students using technology. For example, word processing classes, keyboarding classes, Internet use classes, etc. could be

offered. Currently, at the 5th grade level in our county, this time has to come out of the regular Language Arts class.

- State wide on-line testing can only be successful if the state servers can handle the load and the local RESA can provide the tecnicians to keep building labs up and running.
- Technology is not computers. Technology is the application of knowledge and learning to problem solving devices and systems. We need to teach thinking and turn our students into knowledge workers who drive their own learning. (Read Homer Hickam's OCTOBER SKY again). Education is a mind opening, not a mind filling experience.
- I believe WV does a great job of using technology. We need to make sure we continue to have the funds necessary to keep our hardware and software up to date. It would be great to have a "computer guru" at each school but I understand the fiscal difficulties with hiring such a person when other classroom teachers are being RIFed.
- Make more training sessions available and attractive in the summer. Taking teachers out of the classroom for training hurts the students. I attended an InSTEP workshop this summer that was wonderful! It was one week long and we were given detailed instruction in how to use a technology tool (digital camera, Palm Pilot, or GPS tool) and plenty of time to practice. We also had sessions in Excel, PowerPoint and other software programs. Numerous great teacher planning and training tips were provided. We were also given our technology tool for free. Unfortunately, there is no more funding for this wonderful workshop which was staffed through Wheeling Jesuit University, former "graduates" of the program, and the RESAs. If I had been able to continue with the program, I eventually would have worked my way up to earning a free laptop computer! I cannot say enough about this wonderful program.
- We need more equipment, and updated equipment, we need to have daily access to this equipment. There are wonderful programs available, but time and money stand in the way!
- It would be very helpful to have a computer on every teacher's desk in the state. We are often expected to do things that we are not equipped to do. Also, many counties do not have the technological support that is needed. We are busy teaching all day (which is what we are supposed to do); we do not have time to install programs, download programs, run updates, explore new websites, create spreadsheets and databases, etc. AND grade papers, call parents, plan lessons, clean desks, listen to our students' stories, meet the individual needs of all students, etc., and have a life of our own outside of the school. We need some help!
- A better server for the state is basic!
- Help to provide funding within each county for at least partial support of a Technology Integration Specialist. Even though a TIS should technically work theirself out of a job the turn over of teaching staff is incredible. With teachers coming and going having someone who is available to work with the teachers and their diverse backgrounds in technology is essential. A TIS could help advance all teachers every year. TEchnology changes constantly. Teachers have enough to do as it is. Many quit using technology when it becomes strange or foreign to them, as a result the kids suffer because they miss out on valuable learning experiences. Learning technology related skills is a necessity for both teachers and students. The job of a TIS is to integrate technology into the classroom. Again with the large teacher turn around only having this position for a short while is only effective for a short while.
- Give us more time to for learning how to implement technology into our curriculum.
- Each secondary school needs a Technology Coordinator/Technology coach with at least half day of non-teaching time to help teachers improve their use of technology and the

Internet. I try to do this now without even an extra planning period and it is frustrating and impossible to try to share my expertise without proper and ample time to do so.

- Getting everyone on the same "page" so we can together move forward in technology.
- Teachers need the time to learn technology and be trained in its use. The support personel is not being provided to the teachers. There needs to be Technology Integration Specialists available to the teachers.
- Dear Mrs. Manchin, We cannot even learn to use technology effectively until our work load is lightened. It seems that we are mandated to do more and more with less resources. Our class sizes are at maximum, and in the primary grades this is a sin! Teachers are expected to teach 25 students to read, write, spell and think, and we do so with much of the administrative work being done at home, because we spend all of our time working with students. At least kindergartens have aides. Where do we find the time to locate technology resources or learn to use a new program? When we do manage to get our students involved in using technology, it usually breaks down and there is no one there to troubleshoot the problem. I would like to see more creative scheduling used to allow teachers time to plan, prepare, and learn to use techology along with other best practices.
- We need hands on training at opportune times.
- I feel that we could have a computer lab with a qualified educator to teach the needed technology skills to our students, then we could reinforce those skills in the classroom.
- I feel it would be helpful to look at Career Centers and Vocational Technical Centers to make sure they have the proper funding and equipment necessary to provide students with the tools they need to learn. We work on very limited budgets and often times find ourselves (voluntarily) using our personal equipment or money to allow students to use more updated technology. Thank you.
- WORKING NEW(ER) COMPUTERS WITH REAL PEOPLE WHO CARE ABOUT FIXING THEM IF THEY HAVE PROBLEMS. JUST PUTTING COMPUTERS IN CLASSROOMS TO SIT IS NOT A SOLUTION. MAKING SURE TEACHERS HAVE COMPUTERS THAT ARE NEW ENOUGH TO STAY FUNCTIONAL IS THE ANSWER. IF NOT--WE MUST HAVE THE SUPPORT TO KEEP OLDER ONES FUNCTIONAL. I ADORE TECHNOLOGY--BUT I NOW HAVE TO LOOK AT ALTERNATE METHODS INSTEAD OF COMPUTERS BECAUSE I DONT HAVE TIME TO FIX THE PROBLEMS MYSELF DAILY--OR WAIT ON RESAS TO COME & LOOK AT THEM. IT IS SO FRUSTRATING FOR THOSE OF US WHO LOVE TECHNOLOGY & HAVE GREAT IDEAS FOR INCORPORATING THESE IDEAS AND CANNOT!!!!! I HAVE TO BRING MY OWN PERSONAL COMPUTERS FROM HOME (WHEN I AM THROUGH WITH THEM & AM BUYING A NEW ONE) TO USE IN MY CLASSROOM--JUST TO HAVE ONE THAT IS SOMEWHAT FUNCTIONAL. I RECEIVED 3 BRAND NEW COMPUTERS..AND THEY HAVENT WORKED SINCE I GOT THEM DUE TO DEEP FREEZE/NETWORK PROBLEMS. RESA WAS ALERTED 3 WEEKS AGO--WE HAVENT SEEN THEM AT ALL. THE COMPUTERS ARE 'PRETTY'--BUT WORTHLESS NOW--WHAT A SHAME! I HOPE THIS SURVEY ALERTS WHOMEVER CAN CHANGE THIS! tHANKS!
- Have technology sessions designed by REAL classroom teachers, not county or state personnel. These people come in and give you a quick overview and you have no time to implement. We've been shown SAS and Marco Polo and several other things, but to implement them into lesson plans and the classroom takes time and we are not given that. Give compensation for taking classes offered on various technology related subjects and make sure the classes are free. If the classes are not on school time you need to pay us to be there since we are going to use it for our classrooms and giving up our time. Plus we shouldn't have to pay for the opportunity. Even buying us lunch with

a small stipend would be incentive for most of us to attend. Get computer techs that can solve problems and issues not just talk about them. I waited a calendar year for problems in my lab. They worked several weeks, did not solve all of the problems and said they had spent too much time on this one job and had to move on and they would be back. That was 4 months ago now and I am not any closer to being able to do a simple task like PRINT. Half of my lab computers have not been able to print in 16 months! I think that the word here is frustration! Sorry, Mrs. Manchin but I live with this day in and day out and have since January of 2004and I am still trying to make things work for my 20+ students everyday. Thanks for your interest.

- We have the technology in school in WV but we need support in keep the computer running at all times. Teachers are more likely to use computers if they are able to troubleshoot them if something may happen. I think you left out that every classroom should have at least 4 computer it them. This would also make a different in the use of the techonlogy we currently have. Mabye the use of moble labs would help break down the technology use issue in WV.
- Please help us be more careful in the emphasis on the computer as the answer to our educational problems. I fear the loss of other means of learning, when so much of our day must be plugged in to websites. Our children are so swamped with material that it is a rare teacher who is able to offer SSR time for their classes. There is so much pressure to meet standards that creativity in the teaching process is lost. We have no computer lab at our school, which would allow the children to be using the computer in a more efficient manner and may free up actual teaching time for whole class instruction in other areas. Thank you for taking an interest in our opinions. It is a wonderful opportunity to "have your ear."
- Provide monies that would allow teachers to leave their classrooms to attend technology training.
- We must first more effectively apply and use our funds that are available. Also, as previously mentioned, we need on-site technology professionals that are not trained teachers, but trained network and technology people. A Fortune 500 company would not require one of their best sales associates to be the computer support person for the company. The CEO would hire the best technology person they could find in their field and leave the sales person to do what they do best, sell!! It is such a waste of time to take a teacher and have them try to implement and support technology. There are too many schools where the tech person is a teacher who is always looking for extra $$$, which is another topic in itself, but doesn't know much that helps or supports our goal.
- Technology is a tool, not a god. Having smaller class sizes is the only effective way of improving education. Vocational needs are much greater. Our programs do not include the students that need training the most.
- Personally, I think we should back off from use of technology. Students can't write as well as they used to be able to, there social skills are lacking, spelling is worse than ever, and I believe that it is because kids have become so dependant on computers. Why should they want to read a book from the library, when they can "Ask Jeeves" to give them all the answers. I like technology, but I believe we are limiting our students ability to think for themselves.
- We place computers in the schools that are almost outdated before they are even set up. What about leasing computers instead?
- All of the training 250+hours has occurred long before the use of the technology was available to me. I started taking computer courses at a time when I had to fight with the WVDE to allow them to be used for renewal hours. Of the 9 computers in the

library--I bought 5 of them with book fair monies. I also bought the LCD projector(with book fair money) so that I could teach the students the skills they need. Needless to say funding is lacking, our school doesn't have a lab and will not get one because we are growing and you have to be losing students to have space for a lab. We have no time to train our staff--my students I hope are teaching their teachers as I teach them. I had one training on a 2 hour delay day, but I am not going to ask teachers to stay after I know they have worked a full exhausting day for computer training. There has to be some professional time to train and professional time to practice the new skills to acquire mastery of the skill. At least half of my some 250 hours were after school hours--no pay--no thanks--no nothing except I learned and I now teach technology to my students because I want them to develop good skill with the use of the material available to them. They use online catalog,EBSCO, Atlas, Almanac, Encyclopedias, Periodicals, newspapers, dictionary, power point and links to cites of interest to them. We have done two research activities and used the 5 paragraph writing model to write our reports (Grades 3-6) One activity was on the tsunami, quite timely and relevant--the other was about John F. Kennedy because I wanted to share that history with them from when I lived history and if I have time I will plan an activity on the death of the Pope again they are living history. Currently I am testing for mastery of the various skills we have worked on this year. The students are performing well.

- We have been fortunate in out county to be able to have the Follett Destiny Program in our libraries. However, this is very expensive. So far, the county has been able to foot the bill by using part of our library money to do so. The program is a great program and needs to be funded from the state level so that we can continue to have this great tool for our students. I feel that all students in the state would benefit greatly from this program. It not only enables the students to search our library holdings from school and home but provides safe websites for the subjects they are searching. It also helps the teachers by providing them with materials to meet the state content standards.
- I think that the state should look at funding within the formula positions of Technology Integration Specialists to aid and support the teachers in creating lessons using technology. Many teachers are not comfortable with tusing the technology in their lessons. They are afraid that it won't work when it is time to use it. They need a support person to lean on until they get comfortable using the technology and to ask for help to solve the problem. This would give them a person with whom they may plan the technology integration part of the lesson. The specialist would be able to teach the teacher the skills required to teach the lesson to the students.
- We need more training for administrators on state required uses of WVDE sites. We must have more support personnel for our systems. We need one paid technology support position for every two schools. Our teachers need funds to supply up-to-date computers (at least two per classroom). All employees need lap top computers so that work can be accessed at home and school. Free internet access for educators at home now that textbooks and educational research access is widespread on the web.
- More training more often. One training in the summer is not enough and teachers often forget the info. before school begins.
- Our county use to offer a technology academy. I attended it and it was great!! Funding was cut, and it is no longer offered.
- The need of up to 25 wireless laptops in the classroom to eliminate conflicts in the lab. If I had enough computers in my class, to be used at my convience, I would use them almost every day.
- I think it is important for teachers to have sufficient training in technology so they will feel more comfortable using it in the classroom. I have taught graduate classes and

professional development classes to teachers throughout RESA V. Most teachers are very receptive to technology and want to use it in the classroom. They are thrilled when they develop a PowerPoint presentation to use in class. Teachers just need to be exposed to the technology and receive some type of training.

- It would be wonderful for students to have access to individual laptops with wireless internet. This would create an ideal learning situation that could take our students in WV to another level.
- We need modern computers that are faster. I was "given" 2 student used computers that still had Windows 95 on them. It took almost 3 months for me to get 98 on them. Our tech person must teach 7 classes a day- yet maintain the computers... yes, he gets paid extra, but has no time, and when computers go down, teachers often have to wait months to get them fixed. Some teachers don't have working computers, and some teachers (spec ed) have no student computers (except the BD class where they play video games most of the day) We'll never keep up with technology- each school should have a paid or half day tech only person to maintain and update hard and software.
- It is very difficult to have 90 minutes a week scheduled for first grade students. At the end of the year, this is not a problem, but at the first of the year I would rather work on basic skills to prepare them for the Compass Lab lessons.
- To effectively use technology with my students, computers must be continuely updated. We have a computer lab at our school, but most computers are often in need of repair. A full time computer specialist at the school level would be very helpful with programs for the students as well as release time for planning for the teachers.
- The main problem in our situation now is that the computers are in our building but we do not have the software and needed MIDI and other equipment needed to teach our students how to be computer savy in the music field.
- I need more time to practice and experiment with new technology. It is difficult to find the time and still meet all the other requirements mandated by the county and the state.
- Provide labs for all schools. More technical repair support.
- To provide time or a full time technology person on staff.
- Technology should be cost effective. Wireless access would be great. Laptops would be wonderful. Especially for the above average students. Programs should be available to the student for practice, typing, information, map, tables, ect. at their home site. Old computers should be refurbished for the students who meet strict standards for accessiblity.
- find solution to lock out unwanted web sites
- Provide money for smaller schools in rural counties to upgrade their servers and equipment to meet our needs. We just do not have the means to compete with counties that have broader tax bases or extra funds generated.
- Currently we are asked to keep track of the number of minutes each student uses each month. I think it would be better to keep track of scores. One program for entering, averaging and reporting to WVEIS for report cards.
- Provide enough up-to-date computers so that each student receives quality time.
- Lady Manchin nees to spend time on COMPASS to see the problems with it.
- We need a computer lab with state of the art technology topics. My students need hands on time . We need a full time technology person.
- Need a technology person without classroom obligations. All classroom computers need

online access. More training during the school day.

- More time!
- Build a computer lab.
- Make sure all computers work all the time.
- Teachers can use a laptop and projector in their classrooms. They could use a weeklong workshop to develop classroom materials.
- I would like to see all schools have the same computer access for all students. i feel students would benefit from a computer lab setting where instruction could be given to all.
- Keep up with new technology.
- Give me time----don't make me worry about informal assessments, No child Left Behind, prioritized curriculum.
- As I mentioned above, I only have one computer in my classroom. This is the computer on which I keep all of my grading files, test formats, and answer keys. I do not like to let students use this computer for fear that they will get into files they should not see. I could use technology more effectively in my classroom if I had two or three computers to use. I could also use it more effectively if I had a projection screen in my room instead of having to bring up the portable screen from the Media Center. The screen is old and cumbersome and takes up a great deal of floor space that I would like to use when presenting or when the students are presenting.
- I would like to know how I can use the two computers that I have in my classroom more effectively. I need to know more websites where students can go to do work independently in the Language Arts dicipline.
- We need to keep our schools up with the times. We are having students work in the schools with equipment that is so far outdated that the students are ahead of our teaching and technology. Classrooms in the Middle and High Schools need to be wireless laptop classrooms. We tell students that technology is the future then we have them write on paper. That is like saying in the real world, which is what we are preparing you for, you will need to be computer literate but we never let them experience the true meaning of the word. Students should be completing classwork as well as research on line. Students leave for college where they must do most of their work over the internet and they have little or no experience in the skills needed.
- The use of technology in the classroom sounds wonderful in theory, but so often the classroom is not equipped in practice to accomodate these needs. It is an underfunded concept.
- As the Technology Coordinator for my school, the biggest need that I see is the updating and prompt repair of the equipment. There is a great need for repair technicians in the schools - - waiting 3 - 4 weeks for repairs brings learning projects to a crawl! I have taken Computer Troubleshooting class for 4 semesters and I am able to help with some problems, but I also carry a full teaching load and do not feel that other teacher's technology problems should take priority over my classroom teaching or preparation.
- There is a great need for someone to be available to the teachers in the schools who can show them how to use technology in their daily curriculum. This person should be a teacher, proficient in the use of technology and the integration of technology, someone who can really show teachers how it can make a real difference in the student's education. They need to have the time to go into the classroom and model technology use and assist as the teachers begin to become more confident.

- Continue offering basic technology sessions at Governor's Institutes (please continue to offer these Institutes!!) Remember that children must be taught how to read before they can use very much technology.....i.e., don't overburden early primary teachers with pressure to use technology while they are teaching basic reading skills. Do offer creative professional uses/resources to these teachers.
- Technology is the key to the future in the employment of the students of West Virginia. It needs to be used in school to the bpoint that it becomes automatic in the child's mind to handle with no hesitation. The training of teachers to be adept in using the computer will also bring the information available on the internet and from other technical assistance to broaden the scope to classroom instruction. This will make West virginai competetive in the world of education and employment.
- Schools need money for computers but they also need money to pay for computer tables, printers, ink cartridges, paper, to purchase web sites licenses, and appropriate software. It's good to have the hardware but there are many other unfunded things that we need to use have we have effectively.
- I feel that technology is important enough that all of our schools should be equipped with a computer lab AND a fulltime teacher. To say we all have varying degrees of computer literacy would be an understatement(especially the more "mature" teachers). Doing this would establish a curriculum not based on the knowledge of individual teachers, but rather one that would follow through from kindergarten on.
- Computers should not and will not replace the teacher in the classroom. Computers can not replace the effective teaching of the basic skills. I am finding that fewer students are interested in computers in the classroom. They work fine in a Lab setting. However, whenever given a chance to use classroom computers during the regular class, students would rather work on their class work, read a book, or play board games with friends at recess time. These skills are very important. With a computer lab in the school, students are getting 30 minutes daily of computer use.
- We need more TIME built into our days so we can plan how to use technology to go along with our lesson plans. I think most teachers would like to use computers to enhance their teaching, but we don't have the time to properly research to see what is out there. We spend so much time getting our lesson plans done. We now have the prioritized curriculum and the cross-curriculum educational push that makes us have to change the way we present our lessons. I'm not saying these are bad ideas. They just require more time to plan. As we speak, it is 5:00pm and I am still at school working when I should be at home taking care of my family. I am a single mom and shouldn't have to take time from my son to adequately do my job. I am a new teacher to fourth grade, but it is easier for me to do the new teaching strategies than some of my more tenured fellow teachers that haven't been exposed to the new trends. If we could get more planning time, it would be GREAT! Secondary schools have more time so why can't we?
- Time is the most important factor - time to learn how to use programs & equipment effectively, time to use the internet to effectively communicate with parents/students, and time to develop and incorporate plans for classroom instruction. Being informed and provided training on programs available (i.e. i-Know website, Marco Polo, etc.)
- We really, really need more technology support!!! WE are fortunate, at our school, to have three teachers who are familiar with technology and ways to fix things. BUT, they are full-time teachers. When we go to them for help, we must wait until they have time or they must leave their classrooms. I am not impatient, but I DO not like to interrupt teaching. When we have to call for outside assistance, it usually takes many days until someone can come to help. Only because there aren't that many people who do this

job. I really feel that, if we are to use our computers effectively, we must have more technical support. When our computers aren't working correctly, it interrupts the learning for our children. Yes, we teach in many other ways, but, if we are to use our computers as a great tool, we need to be able to know that we can plan for their use and be able to use them as planned. Thanks!!!

- I have been teaching for 20 years and each summer is taken up with workshops, conferences, or classes towards a degree. I take my job seriously! I love to teach! My biggest problem is how my county and school make choices for C.E. that are not profitable to growth as a teacher. Many workshops and C.E. classes are a waste of time, very unorganized, and usually a one-time deal that is forgotten by the school or county once it is over. I need avenues of growth! Teach me how, but then give me practice time with assistance for the next several meetings. Don't hop all over the place. Teachers in our school are not required to know how to use the computer. Several of us have wanted technology goals for learning each year, on a graduated basis, until all our staff are comfortable using the computer. The principal is not supportative of this idea.
- If we had computers that would work and not down all the time we could do a lot more with students.
- Please let us have release time to learn. Provide instructors who can work with individual needs. I find that so many times the instruction is way over my head or is so voluminous that I can't possibly grasp everything at one session. Most of the other teachers are more adept with technology and begin at a place that is advanced compared to me. I usually feel intimidated and don't get much from it. I need to know how to use technology and still get through all of the CSO's.
- Having been in education for the evolvement of technology from the beginning to the present, I would suggest that as seasoned teachers retire, their new replacements will have more basic technology knowledge and self-confidence with using it; therefore, I believe effective use of technology will come with time. But, I think that unless technology conveyances are constantly updated along with educating us to use them, we may never become as effective as we should be.
- Give the teachers time in their already very busy schedule to allow the opportunity to explore and develop lessons in technology and Give each teacher the appropriate equipment in their classrooms to be able to incorporate effective learning environments using technology and School systems should not limit teachers on the access of grade sites from home or limit their ability to download or use appropriate sites and software in the classrooms
- PROVIDE MORE LAPTOPS AND TRAINING.
- Please supply educators with the equipment (NEW and WORKING)to foster skills in technology AND provide adequate time for elementary teachers to use it. A 30 minute planning when you have to walk your students to their "special" classes and then also pick them up leaves vey little time to get creative with technology (especially if your also need a restroom break!).
- Our curriculums are so full of required subjects every day that using the computer as a practice and review is about the only way we can use it. We move from one subject to the next so quickly there is little time to insert anything else. Our basic core curriculum is so difficult for some children that we spend more time on that. There is no long period of time to spend on the computer. I hope that this information is useful to you.It is very upsetting to us on some days. We try every day to finish every subject that is required, but some days it is impossible.
- We need to keep the equipment up to date and repaired. Schools need a technology

integration specialist ot assist teachers in making the best use of the equipment and software available.

- Time and more time. Paid technology coordinators in each school with time in their day to teach others and maintain equipment. A coordinator with a full teaching load is ineffective in assisting teachers who are not knowledgeable about the vast amount of information available to them.
- Staff development meetings within the school to help with Ed Line, doing lesson plans on the computer, more training with Grade Quick (a more in depth look at Grade Quick)
- I teach gifted education. These students would like to learn different subject matter than what some of the teachers in my county can offer. They would like to learn Japanese and oceanography. This could be made possible through the use of technology. The students could learn from a lab situation and send their work back through a lab also. The possibilities are endless. This could also be a way for the counties to save money.
- We desperately need a staff person that teaches students their computer skills, as well as serving as a support person for educators. Teachers at every grade level are supposed to be teaching Technology Content Standards and Objectives. Unfortunately, many teachers do not know how to do the computer objectives themselves. How can they train their students for the future?
- More money needs to be spent on teacher pay raises.
- I believe that we have a great asset in the technology equipment provided to the schools through the SUCCESS and Basic Skills programs. I do not believe there is sufficient manpower in the schools to maintain the equipment, keep it up to date, and manage the networks and users. While the RESA 6 Tech Support is helpful, it is woefully inadequate for the number of schools and computers available. Students and teachers become frustratred when their computer or the computers in the lab are not in good working order and there are no staff provided by the school funding formula to deal with the technology. A company with as many computers and users as my school would have an IT department of 3 or 4 staff just to keep everything running. Students have been a great help, but they do not have the expertise or the time to resolve all the problems we face. Additional staff is needed to work with teachers on incorporating technology into the curriculum in their subject area.
- Our RESA 6 technicians do a fantastic job of fixing tech. problems but there are only a handful of them and they must cover every tech problem in every school in 5 counties. We need more help at the building level. And we need Time; time to preview, plan, & reaquaint ourselves with software. Training teachers on, say, Basic Skills software and then sending them back to a non-stop busy day, leaves them no time to look up & preview lessons related to classroom instruction. Then, only having 3 or 4 computers in the classroom means teachers have to cycle students through a few at a time while they provide something else for students waiting their turns.
- I think an overall commitment at the county and school level to training teachers in tech would bring us foreword dramatically.
- Dedicate full bandwidth to the classroom as not to take back seat to WVEIS allocation of speed. Provide onsite technology and curriculum support by non-teaching personnel. (Teachers who teach full loads cannot be the troubleshooters and support personnel at the school level as it will compromise their teaching time.) Video conferencing to bring experts into schools. Find the motivators and practitioners who are using cutting edge technologies to excite students and colleagues in the use of educational technologies and share them with the state. Look to county leaders in technology to help shape the

future of educational technology in West Virginia. Priovide flexibility in state funding (block grants) so counties can purchase what they need from the open market! Thank you for this opportunity to speak out!

- Teachers need Staff Development to keep up with new technology in new computer programs.
- Every school should have a technology person who is a teacher, to work with the students and the teachers. This person should have half day or longer to work with technology. If we keep going at the current rate, the expensive machines will and are breaking down.
- make equipment available for all teachers smart boards in each classroom additional support staff to install appropriate lines, etc
- Supply money for training and support of our current technology, focusing on maintenence. Rewarding teachers would use technology effectively with more advanced technology tools.
- We need to have technology teachers for the students . We are being asked to teach technology standards/objectives, that some of us don't know how to do ourselves.
- (see #16). I would like more time to experiment with the computer and learn. I would love to see an electronic newsletter with links to popular education sites that teachers have tried and found success. These sites could be for both teacher resourses and online student activities.
- Provide the classroom teachers with updated computers and staff development in integration
- Our school is forturnate in having a technology coordinator who actively works to secure grants, allowing us to have frequent updates. Schools must have a knowledgable tech coordinator who can trouble shoot problems immediately; teachers are too busy to wait several weeks for needed repairs. Our school trains students to trouble shoot so the trouble shooting turn around time is usually only a matter of a few hours. But, I have worked in schools where this was not the case and seen teachers give up their technology becasue it was too frustrating to deal with the overdue repairs.
- We need technology coordinators in each school and more time.
- Technology Integration Specialists are great!!! Please continue the program. More support people needed to deal with problems--computers not working, etc. It sometimes takes months to have problems solved.
- We have great teachers who want to use technology but have not had adequate training or time to train.
- County administration and principals are taken from their buildings to receive training and given PDAs, laptops, cell phones and all the programs and the service needed, BUT what about the teachers in the trenches. We are the ones in the classrooms trying to teach our students about the technology when most of the students already have things at home that are above what the teachers know or have to use. Please get rid of the trickle down effect and give us the teachers what we need to go our job to the best of our ability not just the minimum.
- Schools should be wired properly and someone in the building needs to know how things are done. We have one group coming in to do one thing another person comes in and does something else and many times messes up what was already done and nobody really knows what has been done. We need people who know what they are doing. We deal with Resa 6, Pomeroy, the county staff, and the school tech team andmaybe the state at times and in the libary I also have the Follett people. The left

hand doesn't know what the right hand is doing. Also there's a lot of money poured into technology, but not enough to keep what we already have running properly. Keep in mind rural schools need as much help as the larger schools and we seldom get it at least where I am.

- It would be wonderful to have all computers in my school with internet access.
- I spent nearly 45 minutes thinking about and completing this survey on a beautiful Saturday afternoon. As I submitted it, I was flashed a message that said I had been on the site too long or had failed to log on correctly. This is the major problem with technology. It is frustrating to use in the classroom. I lack equipment, time and expertise to use it effectively. I use my computer at home everyday and love it, but for the classroom I find it difficult. Yes, I do use it in the classroom, bit not nearly like I'd like to. I completed the entire survey and appreciate your interest.
- There is a lot we have already done, and much, much more to do. One problem is the speed of our internet access, especially in the afternoon, when everyone is on the state server. But the BIGGEST problem in my world is the problem of malfunctioning hardware -- printers that don't work, hard drives that crash, servers that "eat" student work, etc.
- We need full time people to handle maintainance and to help with integration ie. help finding appropriate sites.
- Technology for the sake of technology is not the answer. To think technology will leave no kid behind is absurd. All the talk tech tools that do not help a child read on his/her own are not the answers. They have their place but they are not the answers in themselves. How are we going to teach parents and teachers alike that this is not the answer but a helping tool for those who need it. I fear it will be another escape for those who have legitimate learning deficits. We seem to be at a stage to claim everyone as A.D.D. and can challenge no one to go beyond what he or she wants to do and what a parent wants. Principals need to push that students be tested in the appropriate way and then still be challenged to overcome and do better. At this stage I see that we are passing students because they "try" and even that is questionable. Principals need to trust their teachers to know what a student can do and is not willing to do or is trying their best. Not to be negative but we need to Educate not teach excuses to not really learn.
- Work to improve the equipment within schools by having an individual within each school trained to either repair the problems or order repairs and be a person who understands the needs of educators and can assist with classroom activities related to technology as needed. Get the top professionals from either within the state or outside of the state to organize conferences for individual subject areas. Have hands on units developed to be HANDED to the teachers who attend. These units should coorolate with the CSO's taught.
- spend money more wisely. sometimes large school, even though they have larger numbers of students, don't need as much money for technology as they get. they can afford new server rooms or whole computer labs, whereas a small school cannot even get some of the basic equipment at all. maybe rotate the spending formula.
- SUCCESS Funds need to be open to all vendors--No Contract! Full-time tech person at each large school so teachers can teach instead of worry about network! Bandwidth needs to be allocated for classroom use first! Ongoing, meaningful professional development for tech.
- I feel that we need to bring our students back to basics. While technology is very important we are creating a great disservice to every student in this state by closing out

Family and Consumer Science courses (Home Ec). We may have students who can do excelerated math problems or do a scientific experiment, but, that same child cannot balance his checkbook, boil a pan of water or wash his own clothes. Make it mandatory for every child to take a Family and Consumer Science class in this state and I can use technology to digitize a commericial embroidery design, prepare a power point presentation, convert a standard recipe for one in the microwave, draw a floor plan to scale, and so many other things. We are trying to keep up with the Japanese in our education but we have failed in the most important aspect by not teaching our children the importance of family and how to survive in this ever changing world. Mary Ellen Cook - Wheeling Park High School

- Provide the necessary support and assistance to help teachers gain confidence in utilizing the existing technology.
- I believe the answers to the survey speak for themselves.
- Give school districts 'block grants' instead of requiring purchases from specific state contracts.
- I think is great that everyone's expectations is high and are expected to reach those expectation. We need the training and the knowledge of the know how to be able to present to the students in the classroom. The goals of teachers are not always getting met without getting enough training, if any. The students seems to know more about computers than the teachers. They have learned somewhere other than school; whereas, teachers are trying to find more time to learn more about computers and such. On top of all the other responbilities, we have considered teaching, grading (constant demand), attendance, discipline, modifications, and etc. We want to learn more, but I don't always see computer training being offered in the summer.
- Success funds need to be open to all vendors - no contract Full time tech person at each school so teachers can teach instead of worry about network Bandwidth needs to be allocated to classroom use first Ongoing meaningful professional development for tech
- We need to have a full-time LAN admin/tech at the large high schools (or one per many smaller schools.) This needs to be a PROFESSIONAL, not a teacher who "knows about computers." We have over 440 computers, 1400 students, three servers, and I have to take care of most problems myself. Windows updates, anti-virus updates, etc. take time that the average teacher does not have the ability or inclination to do. Teachers who have computers in their classrooms need to be forced to go through a basic computer maintenance course developed by the state to cover basic use. One teacher said that when a pencil sharpener breaks down, they don't have to fix it--they call maint. I told them they don't call maint. to empty it out once a week. Basic things like scandisk, defrag, and other prev. maint. tasks will make tech available when students need to use it. Lastly, cancel the SUCCESS contract with Pomeroy--they are robbing the state blind with price and the selection is horrible. I had my students look up prices of contract items and compare with the free market. Pomeroy prices are often twice as much for the EXACT same item. I need more room!
- First and foremost, we need up-to-date technology, or the point of using technology is useless.
- If updated technologies were more readily available in our schools, people would feel more comfortable in using them. Additionally, I've been teaching for almost twelve years. In more recent years, I've found that my students are not well-versed or well-practiced in using basic technologies, such as using Microsoft Word or even the Internet to conduct research. In addition to teaching them reading, writing, and arithmetic,

we're also expected to teach them technology. This just isn't possible for core-curricular teachers. We need to have teachers who can teach our students technology and how to use it to enhance their learning in other classes. Students need to be given classes in using technology, as well as other classes that are required, such as their academic classes.

- Provide more computers to classrooms that would allow teachers to log on and do activities. For example, I like to use the National Geographic web site for activities but must do class group rather than small group/individual activities. I would like to be able to have students do power point/ compturer activities to show mastery of certain skills
- Thank you so much for making the time and effort to listen to some of our needs.
- We still need more instuction and time in becoming adept ourselves with using technology.
- Provide staff to support technology implementation. It is difficult for a classroom teacher in a small school to teach her class effectively and also lead the technology initiative.
- There is a large inequity in the way school teachers are provided computers. SUCCESS gives our 6-8 grade classrooms computers, BASIC SKILLS gives our K-6 classrooms computers (notice the double-dipping of 6th grade), and Special Education and Related Arts (Music, PE, Art, Home Ec, Industrial Arts) never get new computers, because they are not included in the SUCCESS or BASIC SKILLS projects. Would it not make more sense for computers to be allocated by teacher? I'm tired of trying to figure out what to have my kids do on outdated computers with 486 processors running Windows 95 (which Microsoft no longer supports), and hard drives that aren't big enough to install Microsoft Office, while I see the classroom teachers getting their third round of new computers in 10 years. When will the arts teachers get decent computers?
- I need new science technologies and old ones such as balance scales, bunsen burners, etc...
- I think it is very important to have specialists to work with the teachers on technolgy. We can buy teachers equipment, but if they do not know how to use it, it is useless. We need someone who we can contact whether it be in the school or county to help us with all the technologies available to us.
- Professional development can no longer be viewed as an event that occurs on a particular day of the school year; rather, it must become part of the daily work life of educators. Teachers, administrators, and other school system employees need time to work in study groups, conduct action research, participate in seminars, coach one another, plan lessons together, and meet for other purposes.
- I would like to tell First Lady Manchin we, as educators, need to have state-of-the-art technology in our schools to enhance our instruction and give our students the best education we have to offer them. We are in a fast moving world where technological advancements are happening almost daily, yet our schools are not advancing at the same pace. If you do not step up our efforts to stay up with these advancements, our students will be left behind, not only in their academics now, but in their future careers.
- I'm very pleased that Gov.and Mrs. Manchin seem so interested in our opinions! I think that we have done very well in the technology "race" with other states, I just feel we need money to keep in the lead. Continued funding for our Basic Skills and SUCCESS programs along with SAS and the 5 year strategic plans are a very good step in continuing the use of these technologies. New programs with more training for our teachers and new positions such as Technology Coordinators that are not just volunteer jobs, and taken by someone that can guess at what to do when a computer is broken.

- We need more computers in schools so more than one class can have access at a time. I have been asked (per WestTest requirements) to instruct keyboarding/word/excel at all grade levels, yet I have no access to computers.
- Its wonderful to be able to use technology in the classroom, but its difficult with classrooms of 25-30 students - especially when you have students with behavior & learning problems within that grouping. These students require extra time & special assistance. Its also very time consuming to develop the lesson plans, even though there are many out there on the web, you must still adapt them to fit your particular classroom. Students do enjoy the lessons and it seems they are much more eagar to participate in learning, as young people are very computer savy.
- We still need teachers and colleges to uses the CSO's to drive the development of lessons. I have had student teachers in my room who do not know about the CSO's. We need to consider buying materials that support the CSO's, this would not always be textbooks. There is no textbook that can cover the all CSO's for a subject(a good example is Social Studies). Textbooks are expensive, we could use the money for other materials and technologies to deliever the CSO's to the students. We need money for printer ink, paper, and photo paper in order to support the discovery method of learning. If we are turely going to use technology then we need the materials to support the students efforts. I am tired of buying these things myself.
- In my opinion, the best thing you can do is to provide up-to-date equiptment for all teachers as well as in-depth training for those who know the basics. :)
- Every school needs to have a full-time technology integration specialist who can provide teachers with sustained on-site staff development which would enable teachers to be more effective users of technology in the classrooms. New hardware, software, and online resources are often challenges that teachers don't use effectively, if at all, due to many factors. Often the TRAINING provided by companies is too generic and when teachers starttrying to implement a product, there are many glitches that are situation-specific and the company rep isn't available to do troubleshooting. A TIS could receive extensive training as well as follow-up trainings that would enable them to provide the teachers with immediate assistance. TIME is a resource of which teachers never have enough. While we can't manufacture more time, we can provide a TIS to locate and assess resources that to help teachers deliver CSOs to their students. Using a statewide network of TIS personnel, there could be an abundance of resources at teachers' fingertips that would already be correlated to instructional goals. TROUBLESHOOTING maintenance issues and use of peripherals could be facilitated by a TIS.
- Time is of the essence!!!
- Please don't add programs that take time away from instruction. Technology should enhance teaching not add additional burden to a day that already doesn't have enough hours.
- Each WV teacher should be issued a wireless laptop computer and strongly encouraged to use it. Each teacher should be encouraged to get some graduate classes that involve technology. Each teacher should be encouraged to write and publish lessons on the Web to share with others. In a word - - - ENCOURAGE!!!
- Give me time and the resourses with which to use technolgy to enhance my curriculm.
- Regular courses taught in the lab by a collaborative teacher -- a teacher who team plans and carries out computer lab work to enhance the classroom teacher's lessons.
- I am quite passionate about the subject of Long Distant Learning. Currently my school is involved in a pilot program with another school in the county. I am not in favor of LDL courses for high school level classes. High school students need the teacher to be

physically present in the classroom at all times. This "new wave in technology education" is not always the right thing to do. I feel that students are being deprived of the personal, one-on-one contact that has always been a part of a student's learning process. The student is and always will be the prime focus of education; however, the teacher is a pivotal human component as well. I can not imagine the increased workload, and stress compounded upon the teacher that has been asked to teach an LDL course. I am not against LDL classes; I feel that high school seniors equipped to take college-level courses could benefit from such an educational/technological opportunity.

- Please obtain up dated computers that teachers can use in the classroom. Products such as smart boards are also a great addition. Help me get away from using so much paper
- Find funding to purchase the latest equipment necessary to prepare our children for the High Tech jobs of the future. Find ways to to fund grants for exemplary students who are unable to pursue their dreams due to financial restraints.
- It's wonderful that all the technology is "out there" for us, but until we can overcome the "kinks" that are presented by equipment/access difficulties, additional training doesn't equate to usefulness for students and newly trained teachers.
- You need to have more training for teachers. When we first had computers put in the classroom (kindergarten and first grade) we had at least a few days of training. However, in the middle and junior high level there needs to be training, and it should be a continuous process as new areas of content arise each year.
- Provide advanced graphing calculator for all students attending the school for a small fee, computer labs need to be made accessible, transportation needs to be provided, students should have a required computer education class to privide skills needed to work the computers and search for online research
- Monetary rewards to show that those of us who learn the techniques and used them daily are valued by the administration are important. I make the same money even as I help others with curriculum mapping, basic computing, grades and use of calculators (TI 73 graphing ones). Others don't think it matters that they don't use technology in their rooms. Since I do, shouldn't that earn me a little more pay>
- Technology is a great tool for helping students understand certain concepts however it is not the only tool. Students need to understand the basic concepts before they should be allowed to use the technology. We as educators have pushed the use of technology so much that many of our students don't have the basic skills necessary work their way through a problem without the use of the technology. Example: There are many students that are unable to do a simple math problem without a calculator. If you really would like to help us use technology we need three things. 1. The money to keep up with the new technology. 2. The time to learn how to use the technology. 3. Small enough class sizes to teach the students how to use the technology. PS Please don't mandate a certain percentage of class time which must be used for technology. With all of the past mandates for character ed., hands-on activities etc. we barely have time to teach the content know.
- We need knowledgeable people in our schools to assist with technology integration such as provided by the Enhancing Technology grant program. We also need better access to projectors, labtops, and smartboards so technology can be integrated into curriculum on a daily basis.
- Make sure all children have access to computers that work (don't buy the cheapest things on the marker just because they put in the lowest bid.)

- Technology does have it's place in education, but not replacing educating the student. I teach 7th & 8th grade math. As the years pass, students entering my class each fall are less and less prepared to be there. The most basic concepts are lacking;ie, multiplying dividing, etc. They spend too much time
- Every school needs a full-time tech teacher to collaborate with classroom teachers and to aid in the teaching of tech skills to students.
- I need kindergarten level ideas. Kindergarteners cannot read, even by the end of the year most can only read some words.
- Raise teacher's salaries so they can afford the material and training to keep pace with the advancing technologies.
- We desperately need hardware and software to implement mandates given by our state and county boards. We are measured by standards which we have no way of meeting due to lack of funds. We scavange old computers from the FBI and pay Boy Scouts to reconfigure them! We feel like second-class citizens with second-hand stuff, yet we are expected to prepare our students for high tech jobs in a high tech world. We do a darn good job, but it isn't easy! (Thanks for letting us vent!) And thank you for taking time to listen to our needs.
- I think we need to teach students to read books and do math problems properly at each grade level and not pass them on until they demonstrate those skills. This needs to start in first grade and continue to be enforced through high school. Technology is not going to teach students to read, teachers are. We need to start requireing that.
- Distance learning cannot be used as an alternative to staffing public schools. It is effective for offering advanced classes to students in schools that might not otherwise receive these courses, such as AP English, Math, or Social Studies, but there are limits to what it can accomplish. Distance learning can never be an adequate substitute for a live teacher.
- We need to require Technology Education classes just as we have required art, music and physical education clases. Our students will be using technology throughout their lives and our state should be requiring that they learn about it in school. I recommend requiring it in middle school and two credits of classes in high school.
- Thanks for being interested in our input. We need more updated computers that we can depend on. We need school time to practice and develop lessons with the new technology that is available to us.
- We only have one technology person who fills work orders for things that are wrong witht he computer. Therefore, it could take several weeks to get anything fixed. We have a technology person in the building this year who is capable of doing some of the trouble shooting but she is being utilized as a head teacher when the principal is out of the building(which is often) and she doesn't have the time to provide technical support. She does a good job of providing trainings, but the training does no good if when you go back tot he classroom you can't get on the Pegusus account or the website youaccess doesn't work or the printer doesn' t print or you run out of ink cartridges.
- One way to help with this is to provide a full-time technology person at each school, who could come in and team teach both in the lab and in the classroom. We also need more time for staff development and time to practice application of the new knowledge.
- I appreciate the funding that has gone into technology in West Virginia schools. Others states are not as fortunate as we are with the number of computers, especially in the elementary schools.
- Computers that work

- I have no complaints. Monongalia County is in good technology shape thanks to the excellent management/organizational skills of our county coordinator. The establishment of a county networking specialist, school-based technology coordinators, and a "train the trainer" mindset with regard to educational software has been critical to our technology comfort level. Statewide, some version of this model, a county technology coordinator, a county networking specialist, and SCHOOL-BASED technology coordinators would solve tremendous issues at a wide variety of schools.
- MAKE TECHNOLOGY FUNDING A PRIORITY ALONG WITH TEACHER SALARIES! Monongalia County is blessed to have Nancy Napolillo at the helm of our technolgy ship. She has written many grants and inspires us to try for grant money. I teach in a building quickly approaching 100 years old but we have 86 internet computers (30 in a lab) and some in everyclassroom, 3 document cameras, digital camers, printers in every classsroom, 4 projection devices, a smart board and 30 palms and wireless keyboards. The students who leave our little school are "up to date on technology". They are exposed and the majority learn to use of these tools in a highly competent manner. Our school works with the WVU Benedum teacher trainng program. I see the graduating teachers leaving the state because we can't compete with other states salaries.
- When planning programs for the public schools to incorporate, it is imperative that professionals be given release time to learn how to incorporate the programs and to implement them before being required to do so. So often, we are only given a plan period to do this, and that time is not adequate.
- I feel satisfied with the amounts of technology availalbe at my school. However, I do know that Bandwidth has been a concern in regards to the recent online WV Writing Assessment. Again, I think the turn-around time for repairs to computers could be handled more quickly - if the companys would send parts more quickly and the county's have enough available staff to visit schools having technology issues more quickly. Otherwise, our school has 3 total computer labs. Not all of the computers are new, but they all work well for faculty and students.
- Dear Gayle, I would like to see the technology trends include the arts more; we need software/equipment to pursue excellence, not just an unfunded mandate to do so. The Arts overall are a category that many administrators are simply unsure of their place within a curriculum, and sometimes unaware of the amazing importance in them. Graphic design/arts statistcally is one of the fastest growing careers today,and is being ignored in many ways in terms of preparation and training within our state. We really need art administrators within each county that are educated to the needs of their art people; so 1.) we need art administrators versed in technology needs. 2.) art-based (and not the simple "paint"programs, but adobe illustrator or corel, flash, etc.) software or access to for the entire classroom. 3.) We need the ability for students (and even more, teachers) to view and talk with successful artists/graphic designers in the technology field that are successful and working. 4.) We need the state /counties to treat art teachers goals/needs as seriously as they do their math teachers and their needs. thank you, Kathleen Snoderly
- One computer lab in a school of 400 plus students makes it difficult to access the lab. There are computers sitting in classrooms that are never turned on because the teacher is lacking in experience or the required curriculum is so intense that there is no time. But due to requirements of the placement of these computers they can not be moved to a location, such as an additional computer lab. Also due to problems with our school computer network I am not able to email out. This creates a problem with contacting and responding to any received email. The technology person in our county has this on her list to correct, but hasn't gotten to the problem yet. We need additional

trained/committed personnel to take care of problems and keep things running smoothly. Thanks for asking. The Manchin Family is looking very good with the ideas they have to help our state. Keep up the good work!

- Please give us sufficient time & support for the use and implementation of technology in our classrooms both with student programs & usage as well as with teacher use for planning, implementation, and responsibilities!
- Mrs. Manchin, I love to use technology in my classroom, however, due to the limited amount of time I have to practice the techniques, I always find that it is easier not to do technology. When using the computers, I have always ran into problems that can't seem to be fixed until "later". I also think that students are relying too much on technology and not enough on their own abilities. A quote from one of my students, "I don't have to learn to spell, I have spellcheck".
- I would like for RESA and IBM to have a quicker response time to computer repair issues.
- administration approach to using technology should be inviting and welcoming instead of a burdensome task. Please have someone who is willing to help with troubleshooting. Way too often only a few people are helped while others are ignored. Please have someone who is available during planning periods. I want someone to TEACH me how to do it, not do it for me. That takes time and patience. Please make sure the newest computers are available for support personnel in the school system. Way too often counselors are told to "buy their own." Why can a school's technology money be used for this?
- Try to get the pipelines larger in the state of WV. Many of the activities we try to do is effected by the size of our systems. Example: writing assessment on line.
- We need more computers in classrooms of teachers who want to use technology, more wireless computers, and more labs. Schools should be encouraged to use paperless systems for communication within the school and communcation with parents. In order to facilitate this, the additional computers should be the "carrot." Before the additional computers are put in place, however, more wiring will be needed in many buildings. I do have 10 Internet drops, but most teachers have only 2 per room. I have the 10 drops because my students and I use the Internet in many lessons. There are teachers who are not interested. At first, concentrate on those who are interested and will use technology.
- Technology needs to be more accessible to the students. They need computer labs equipped with research based, educational programs.
- Educate everyone that technology is NOT a synonym for computers/Internet.
- Make class sets of computers more available to teachers to use as a teaching tool in their classes.
- The current testing climate unfortunately means that technology sometimes takes a back burner. However, technology is something everyone needs to have skill at in order to exceed.
- We in Monongalia County are blessed to have a high level of technology support. Throughout the state, the funding to provide adequate hardware, technical support, curricular support, and staff development time need to be continued or increased. We're "getting there," but we cannot afford to fall behind advances in technology, and teachers need more time to learn, plan, and integrate technology as well as the technical and curricular support to facilitate this integration.
- Continue to fund purchase of hardware and software as we've been doing to eventually

have at least 1 lab and 4 computers in every classroom K-5. Increase funding for time for teachers and support/professional resouces for teachers (technology coach) to be able to make technology a part of their everyday teaching. Provide a more interactive, engaging Basic skills program for students that is coorelated to our CSO's. Provide administrators with evaluation strategies and guidelines for monitoring teacher use of technology. Thanks for the opportunity to give you input! I'm glad you and Joe are in the Governor's mansion!

- I would be able to use this more effectively if I had more time. We have been shown many things and i would love to use them, but time is not available to "practice" and to try to learn these things to the fullest extent. TIME is always an issue.
- It would be great if each teacher had a designated time slot so many times per semester that they could take their students to the computer lab. This would eliminate the headache of trying to schedule time for the labs (especially for teachers that travel, like me). Also, It would be great if the school could have a powerpoint projector/laptop that teachers could borrow to use in the classroom.
- Please continue the support of technology in our schools. One problem is that we do not have enough computer labs for the number of children in the schools. For example, we have 2 computer labs for 70 teachers to access for class periods. I would encourage you and the govenor to put education for the children of West Virginia a top priority. They are our future - let's keep them in West Virginia.
- My only fear is that Special Needs student's do not have the same access to computers as other students. Due to lack of funds and inadiquate computers in the sp ed classrooms.
- Dear First Lady, It is imperative to maintain West Virginia in the top of high quality technology and its implementation and integration in the public schools. Students are required to utilize tecnology to be prepared for higher education and / or the work force.
- Often times it is not practical or the easiest way to set up a classroom for a lesson. Each room needs a technology teaching station with computer and projector, etc., that remains in the room. In 5 min. class change it is impossible to have tchnology working and doing so consistently. At present this equipment is located in the building but it is inconvenient or next to impoooible to get it from another area, manuever through crowded halls and set up. Only to disconnect and relocate at the end of class and get materials set up again for another class.
- Money to buy the technology tools that come with the textbooks.
- Please be sure that schools have adequate funding for maintaining, replacing, and troubleshooting computers. These things aren't as flashy as buying new hardware, but they are essential to maximizing the use of computers in our schools.
- Provide every student with a laptop computer and convert all textbooks to CD-ROM.
- I believe that many teachers are afraid of technology. We need to "educate" our educators on the effectiveness and convenience of computers/technology in the classroom. Many of the teachers I know are afraid to use new technological things because they have not been trained accordingly. The state needs to show our teachers how technology can make our lives easier!
- Update the computers we currently have in our classrooms. Give us equipment necessary to project the computer screen into our classroom.
- This year, through funding from an EET grant, I have served as a Technology Integtration Specialist at my school. By being on-site and able to deliver individual staff

development as teachers have a need has increased and improved the level of technology use at our school. I strongly encourage increased support for technology use in West Virginia's schools. We have been able to use distance learning activities from the Carnegie History Museum to bring the dinosaur exhibit to first graders who might never see that. Technology brings the outside world to many rural areas of our state. As a TIS, I have been able to travel around the state to see what level of technology is available in other counties. All is not equal in West Virginia. High speed Internet access is a must for every county. Expert technicians to keep equipment and software working should be hired and well paid in every county. Trained personnel to help teachers integrate technology should be available in every school. Thank you for the opportunity to express my opinion on this important subject.

- Help us learn how to find tehnology resources that are beneficial to studenst and aid in meeting CSO requirements.
- The State and Federal governments must continue to fund technology in schools. Computers and other devices change rapidly from year to year. If all WV students are to keep pace with the changing world, they must have an education that includes up to date technology. Also teachers must receive training to integrate that technology into their programs. Without teacher training, even the best computers will not help our students keep pace.
- We need teachers on our own grade level, who have demonstated an expertise in using technology, do multi-sessioned, site based, staff development, that is non threatening.
- Teachers need time to learn and time to catch up.
- Updating computers and software used in classrooms and providing materials (earphones) that need replaced or updated in a timely manner.
- We need equal access for all schools to have access to computers and technology.
- I think we are doing a good job here in Monongalia County of using our available technology. There are still lots of opportunities out there for us to integrate technology into our classrooms but we lack the funds to do it.
- To use it more effectively, they must be up and running at a faster pace. (Have a technician available who can keep them up and running properly all the time)
- Technology is a very important part of our teaching curriculum. I believe that if we are to implement it properly and efficiently, all schools and teachers should have ample access to the computers as needed. I know that technology changes fast therefore it is expensive to keep up the pace. But if it is expected of the teachers and students to use we must have access at all times to these tools. I feel very fortunate in my school, but I know that other schools are less fortunte.
- High speed internet, onsite technical help, and wireless internet connections are the most useful components to me. I have the high speed at home with a wireless hookup. It is so much more efficient, I end up doing the majority of my work at home on the computer.
- It is all about money. In order for our schools to train students in the use of technology, we have to have the up to date technology in our schools. Students have better equipment at home than in the schools. Funding placed not in districts....but in SCHOOLS...so that decisions can be made at the school level as to how to use monies for technology.
- Money to upgrade People to manage
- Povide useful technology to each classroom and classroom teacher, provide the teachers with support, and assurance when hardware or problems occur that timely

troubleshooting and/or repairs will occur. Hardware and software must be teacher friendly, with all the other demands of our teachers, technology must be viewed as an asset and not just another demand of precious limit time.

- We need funding to update our computers to run the new programs. The new science programs need updated computers in order to run properly. Additionally, if each classroom were equipped with a LCD projector, it would enable teachers to utilize PowerPoint, etc. better. Also, if possible, a laptop for each teacher would allow those who utilize technology the time to work on lessons and other assignments at home on the same computer that will be used for the presentations. If the buildings were equipped with wireless technology, the laptops could make the lessons more portable. Thank you for being an active part of the future of WV!!!
- Technology is very valuable to our students because we live in a rural area and it has opened up our students to places they have never gone or never will go to through virtual field trips. They have used the I Know site to complete online practice for the WESTEST and they enjoy that more than taking the paper-pencil practice WESTEST tests.
- We need more, updated computers that are not as slow as Christmas. We need funding for ink cartridges for our printers.
- Mandate teacher training by providing paid hours during the school year. Increase funding at the state level that is specifically designated for technology use only.
- The computer labs are fabulous. However, we need more computers in the classrooms because that is where we are most of the time. As a general rule, students in each class have access to a computer lab 60 minutes a week or less.
- More Training and support for teachers to use the technology they have and up to date computers in every classroom
- Technology is very effective with students inthe classroom, however all teachers need to become familiar with the use and purpose of all forms of educational technology. We need not only the equipment in the schools, but also the training on its use with followup training and we need support personel in each school to help with the use and the problems that can occur with technology. This has to be a fulltime suppport person, not a classroom teacher that helps out between classes or planning periods. This person could also spend the many hours exploring sites that can be used in the classrooms.
- Technology is not being used effectively when fifth graders and eighth graders are given laptops and PDAs before they show mastery of keyboarding techniques and the abillity to be responsible for expensive pieces of equipment. They have not yet shown "schools to work" professionalism. Most technology/science/math teachers, and administrators do not agree with me. However, I think that keyboarding should be offered to all 8th graders as a semester course that counts as a 1/2 credit for high school. If they do not take keyboarding in middle school, then it should be a state-required semester credit in high school. All future employees should be completely comfortable with the four main computer application tools--they never know when their factory jobs, an injury, or job loss will require them to take on a computer-related position. Also, it should be strongly recommended to all school boards that all students take one year of computer applications in spreadsheets, databases, presentations, communications/calendaring (Outlook), and word processing.
- We seem to need teachers to be more accountable for keeping up with the technology. We have some which have been allowed to not incorporate technology, but we have also had problems getting everyone the needed hardware and also getting it hooked up. Teachers using their own time to help out are doing it out of the goodness of their

hearts. I think the best use of money would be a laptop for each teacher, LCD projector installed in the ceiling of each classroom, and wireless access. If we can't have classrooms (i.e. we have many traveling teachers and trailers which will we still have after our renovations). I don't know what I would do without my laptop and my LCD projector, I can make a powerpoint presentation in about as much time as it took me to write up transparencies and gives me such freedom in the classroom. The remote allows me to walk around the room to instruct, I also insert websites to help reinforce concepts. Wireless access frees all teachers regardless of where they are in the school.

- Students need to learn correct useage of the keyboard early in their schooling. With instant messaging, students learn short cuts to expressing themselves, that is not proper English. (This happens at home on the internet). The school must emphasize the correct useage of sentence and grammar more at an early age when it relates to using the computer.
- We need to be able to access the released problems from the Westest as early as possible.
- It is not only the need for technology in schools, but it is also maintaining a high level of it. We have several computer labs, but when the technology is not replaced every three to four years, it becomes like a dinasaur, outdated, slow, almost extinct.
- As a business teacher, I would like to see keyboarding skills actually taught in the elementary schools either a program or a teacher so that good techniques are developed instead of the students hopping around the keyboard. Bad habits are learned and then are never changed in later years. As a high school business teacher, I know that there are CSO about technology which is to be taught in the elementary schools; however, with all the courses that must be taught in the elementary schools, it is one things that just gets ignored or there is no time to accomplish. HELP US with the legislature in regards to an attendance policy for our students. The state has this past year developed a plan whereby you can miss as many days as you like and all you have to do is bring a note in telling why you were absent. We have students missing a lot of days--test scores will indicate it later. Students can't learn if they are not in school. Reward students for attendance.
- Unfortunately, counties with growing populations like Berkeley have to use state technology funds to equip new schools each year. That leave little (or no) money to upgrade computers currently in class rooms. Many classrooms have no computers or only one which is internet accessible. I know we are alsways complaining about money - and I wouldn't want to live in a distrcit which has to lay people off because of losing population, but I am frustrated that we cannot get the best up top date technology to sue wtih our kids. Thanks for asking our opinion.
- Elementary schools enough computer labs that all teachers including specialists can have lab time. all classrooms need to have more working computers. we need the ability to use power point presentations without having to drag cumbersome equipment to our classrooms
- We need new equipment and the time to learn how to use it. Please remember that there are more "teachers" out there than regular classroom teachers. Sometimes us Special Educators get left out. There would be more that we could do with technology if given good technology to work with.
- We need more computers, more LCD projectors, and more training.
- provide more computer labs per school
- Computers need to be given to every student and teachers. The placing of 3,4, or 5 computers in classroom is not adequate for using and integrating computers into

students work. To get the most effective use of computers, all students and teachers must have access at all times

- Funding needs statewide
- I feel that in order to use technology effectively we need to have the appropriate technology in place. I have three Internet computers in my room and they are all slow. This is a big hindrance. The fourth computer has ICLAS on it and those are so old, I remember using them when I was in elementary school. It would be a big help if the equipment in place was updated.
- First, we need to keep technology updated. We may have computer and we may have current programs but often the computers operating systems are too old for the new programs. Technology is not a luxury it is a necessity. Every student will go on to work with technology in some way. By introducing technology in all their stages of learning we are better preparing our students for the future. Often for students to get jobs they have to fill out application online. If we are not preparing our students for these simple tasks how can we ask that our students be successful. Technology is also important for the teachers to stay efficient. We are ask to do more and more every year with no change in pay. If it is expected for us to do more the least we could be given is technology to make this task more efficient.
- As far as I see it we are really behind- and what we as teachers need in my opinion are : 1. more training for teachers- so that the students can't run ciracles around us teachers and we have to ask them for help 2. more programs available for teachers to use such as those for calculatig grades in the classroom 3. each teacher should have access to programs that would benefit thier discipline- 4. more money for printer cartridges - we always seem to run out 5. Other pieces of technology besides computers- they are not all to life- things like digital cameras for students to experiment with for various projects
- I know how to use the technology,but we just don't have what we need. I personally received $1,000 from Wal-Mart for our school which I chose to be used for Microsoft Word and Power point programs. We couldn't get them because they were not compatible with out old computers. Kids need to learn on the programs that are being used today so that they won't have to relearn when they get older.
- We need a data projector and screen in order to use technology with a whole group of students. Our students are young and require explicit instruction for the use of technology.
- The ideas for technology integration are there, but implementing them is often impractical or impossible. In our school of over 700 students, the main computer lab has limited access, both in numbers and time allowed. The maximun allotted time for a lesson is 45 minutes, including log-in and setup time. If the data cannot be saved, we lose the entire lesson. Students are often able to surf the Internet, but only in their areas of interest, such as music and game downloads. Their information processing skills are weak, and their idea of research is to print off an article and turn it in as their own work. I would like to see more colaboration between curriculum areas (such as between English and Science) to provide students with the best technology instruction.
- Sometimes it is hard to find time to adequately explore ways of using technology in the classroom.
- Mrs. Manchin, I purposely 'snuck' into this survey and sort of altered my answers to meet the teacher profile because as a school health nurse, I am often 'lumped' in with teachers as a professional, but am also often left in a gray area without representation. I have been a nurse 'teacher' for many years although fairly new to school nursing and

West Virginia. I do feel very confident about my technology skills and use the internet frequently to gather the most up to date information on many health related subjects. I recently used it to complete my West Virginia School Health Nurse Certification. While using 'technology', I was frequently reminded that while using the latest and greatest gadgets would certainly be a wonderful thing, we must find ways to get our students exercising and eating more healthy foods. We have a very over weight population and our students do not get near enough physical activity. There are electronic dance pads and exercise equipment that could be used for students and the local community. I know that you are behind improving the health of our students. Surely there are some ways to use technology to help.

- We need updated and more computers in the classrooms. Some of the computers are very out of date. There needs to be more time in the schedule allotted to the use of computers.
- I think teachers should be given laptops to use at home to do research on current instructional strategies. I beleive that educators (particulary reluctant teachers), would take more time to practice using programs if they had access to a laptop at home. It is very difficult to find time during the instructional day to check the WVDE website for current information or to research current educational topics. Most of my research is done at home in the evening. I am fortunate enough to have a laptop available to me. Because of this I check the WVDE website daily and use the resources to help me acheive the goals for educators at the county and state level.
- We need the equipment, support/maintenance staff available, and instruction on how to implement/integrate it into our classroom. We need in-depth instruction and the TIME to apply it to real situations in our classrooms-not a two hour class at another location where we are unable to use what we have learned (use it or lose it!)
- Get the computers to the teacher who need them. I know of a school that has more computers than students. The computer labs there are almost NEVER open and the computers are NEVER used. We would be using them at our school if we had them!
- First Lady Manchin, As Technology Facilitator at my school, I find that teachers need more time training and planning in technology or frustration sets in and it's put on the back burner. Also, with the overwhelming amount of retirement age teachers, they feel they have no use for training, using technology in the classroom, and/or they've taught without for many years and students have succeeded. Time is a major issue. If time was allotted for training in the building, training in the classsroom with students, etc., I feel teachers would receive technology easier. Thank you for taking such an interest in technology. As a technology facilitator, I truly appreciate your time and support.
- just get me the necessary hardware and appropriate time to master it
- I feel that I use technology very effectively. I dislike the idea that it is required that teachers use it in their classrooms and that they have to hit websites so many times during the school year. I am aware of the importance of some of these websites and that they could/are beneficial to many of the students. However, I teach special needs students, and it's hard enough for my students to grasp basic skill concepts, let alone work on the computer trying to complete computer based tests, or questions generated from a question bank.
- Wisdom used in deciding the $$$'s spent in technology.
- I have mixed feelings about the push to use technology in the "elementary" levels of instruction. I view technology as a tool to help reinforce prior learning and not to be the primary medium of instruction. I encounter students every day that do not have the basic academic skills to build on. Remediation is required far too often. My suggestion

would be to remove the computers from the grades (1-6) and supply those resources (more teachers, aides, tutors, valid testing, parental involvement, etc.), in those grade areas that may solidify most of those basic concepts and skills before moving into the more advanced skills of technology.

- Teachers need to be properly trained. I spend most of my free time researching for my fellow staff members and I believe that most of them are either scared or frustrated with the use of technology. Time needs to be devoted to helping those who are intimedated by the technology.
- The school's server cannot handle enough people at one time.
- As a parent of a high school senior, I feel there is adequate computer instruction in our county but as an post-secondary nursing instructor I feel my students would benefit tremedously in better equiped computer lab and time to use the facility for research and as a learning oportunity. Our director is excellent in making sure our students have computer access if needed after the regular school hours of operation.
- I would like to have more access to a laptop and boxlight. I use these items to work on i-know items, PTO presentations, present lessons in word processing and spreadsheets, and access information on the web that pertains to specific lessons in the classroom.
- 1. Our school needs a full time sysop. We currently have 100 teachers in our school, and the 2 "part-time" sysops are never available to help with any problems. It's difficult to even get a program installed since they must unlock our security program. As a professional, I would like to be trusted to install programs on "my" computer used in my classroom. 2. More in-classroom computers are needed. I have 2 working computers (should have 3) but had to take one of them to use as teacher computer. A presentation station (computer, data projector/link to computer and a monitor in front of room) should be installed in every classroom.
- I feel more computers in the classrooms. Also, to have time to be creative using the computers.
- I didn't answer some of the questions because I spend a great deal of time working on lessons and grading papers. I refuse to take time away from my classes to work with tecnology that doesn't always work. I spend a good deal of my time at home researching on the Internet ways that I can better work with my students. If there was some way that we could have in every classroom a projector that hooks to a computer and could put the screen at the front of the room for all students to see, that would eliminate the need for some textbooks. I know that some classes (like the computer classes) already have that. I think it is an LCD screen but I'm not sure. Having that and a laptop in every class would help me to use technology better in my classes.
- Although I feel our school probably had more equipment available than most, some of the workstations are very slow and outdated. Too much is being invested in techonolgy at the elementary and middle school. More resources should be devoted to the high school level where the students are learning job seeking and higher education skill.
- For me, as a teacher of art, simply having access to a computer lab is not enough. Programs that use computer technology in art are expensive and the money I have allotted, like Step-7, gives me just enough funds to buy basic art supplies. I can't afford art programs.
- I love technology, but some teachers feel that it is all that we need to increase test scores etc. but technology is just a wonderful tool to use to enhance the learning of our students. We need to cover the basics and of course we can use technology to help us/
- We use technology in our school. I feel the students need more of the basics. Students

have problems with the basics such as math, spelling, grammar and reading. Students take entrance tests into post-secondary level programs and fail to get in due to the weaknesses in these areas. I am totally supporting technical education, but to use this area they need to be able to master the basics. Thank you.

- The most important concern is the need for increased bandwidth. In our area, it is extremely difficult to have many students online at one time. Even with the T1 lines, it is a problem. Please consider increasing the bandwidth for the southern part of the state.
- We need alot more access and time to work with technology.
- Every teacher should have a laptop computer assigned for their use. If they have one, they will use one. This is done in other states. Each one I have I have been required to spend many hours developing curriculum for online learning. This was effective, but other initiatives give them to teachers.
- Technology is very important and it is very important in business education as well as science and math. If students cannot go out into the business world with at least close to the latest versions of software and computers that are not so slow that class is half over by the time the program loads--their success is limited. We also need more band width is we are going to continue to teach on line.
- We need to have either more county tech people or someone in school full time to maintain the hardware and work with the software. This would eliminate a lot of the frustration that teachers have. When something won't work right in the time they have alloted to do something on the computer, they usually give up and sometimes don't try again.
- My request is three-fold, we need an adequate enough budget to (a) provide adequate support/technical personnel, (b)equipment to keep computers running; and (c) money and technical support to make access to computers possible for every classroom.
- We can have all the computers in the world but this would not be the answer to educational problems. If teachers and students cannot use the equipment because it broken and waiting on parts or maintenance, what good is it? If the infrastructure is not funtioning at the same rate all over the state, does every student have equal access. If the programs the state is paying for is not completely functioning, how can I or a student make maximum use of that program. The computer will never take the place of a hands on teacher but it can be a tremendous tool.
- The emphasis on technology by all teachers was high last year, with the Reinventing Education II grant providing impetus for staff development sessions throughout the school year. Supposedly, teachers were going to be evaluated on their implementation of technology in the classroom. That emphasis has vanished, and the testing scare has consumed administrators. Emphasis and funding have gone totally to effective schools. Technology emphasis needs to be continuous, as does funding for professional development. Technology and high test scores should go hand in hand.
- All curriculums need web-sites, including Family and Consumer Science.
- I feel that all the training we get is geared more for the core classes. I don't object to this training, but, non-core class teachers sit through training and we are usually promised that "more will come" for our subjects. Then it seems we are just forgotten. I do like MarcoPolo. This website has some things that I can use.
- I teach English. I could use the technology to help improve my students language abilities, but there are so many hinderences. 1) I don't know how to use a lot of the technology because only a few people at each school are trained in it's useage. They

are suppose to teach us--When?What quality of re-instruction? If it's worthwhile to teach in detail to a few; it's worthwhile to teach in detail to all. 2) There are programs that it would be wonderful to have, but have you looked at the cost of these programs. I've played with SAS a little--my 9th graders would have a very difficult time using it. It's a wonderful site, but my students aren't advanced enough to use it. I need something simpler. 3) Most technology money has been spent on purchasing machines. We need money for the constant upkeep and updating of technology, and trainning in the use of the technology,

- Systems need to be up and running before implementation is attempted. More wireless internet service to prevent blockage or shutting down phone lines.
- Help each teacher have a computer in their room! Also, when there are technology devices for the school, they need to be available to ALL teachers. The two teachers at our school that deals with technology keeps it all to themselves!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
- We need more time allotted to the importance of computers in the learning process. It is quite challenging to include all that is required in the school day already, but perhaps some of the curriculum requirements could be combined in order to give students more time on computers.
- more time for training and support personel on-site
- Increasing the bandwidth for our school (Athens K-8)/county (Mercer) would enable use to utilize technology more effectively.
- When we recieve training, I find it interesting and have the desire to employ the new info in a classroom. But with NCLB, we have to focus so closely on somethings that I feel there is not time to "discover" computer tech at the middle school age. We cannot make it the priority it should be. We also are trained on one type of programs and then find that we have different types of programs available in our schools. For instance, we were trained on Microsoft Works and when we got a new server it was all replaced with Lotussuite and people are "floundering". As a special ed teacher, I work hard to teach my students how to use the word processing programs and then they are throw for a loop when they cannot operate the new word processing programs. It sets them back in terms of success, that is not fair to them.
- Provide a computer teacher for each school.
- more than one computer lab in a k-2 school so more time can be scheduled than twice a week for 30 minutes
- If more extensive training of software programs being utilized by our schools was available, educators would realize an increased sense of competence and this, perhaps, would translate into greater usage and therefore, more benefit to our students.
- We need equipment that is of high quality, well maintained, and consistent in how to use it. Some of our computers do not have sound cards, which renders them useless for certain programs. Our computers are inconsistent in the operating systems that run them--some have Windows XP, some have Windows 98, some Windows 97 and some are even still using Windows 95. When there is only a 30 minute period allotted for using the computer lab, and troubleshooting takes 20 minutes of that time, it is easy to understand the frustration felt by both teachers and students.
- Every classroom needs a Symposia machine. This would allow the teacher to do a power point presentation, teach the lesson, show a film clip, etc. In the future it will be standard practice for textbook companies to offer computer disks which cover all of the lessons: pictures of famous works of art, diagrams of cell structures, a short clip on the running of the bulls in Pamplona, Spain, etc. Any thing you can think of! Seeing a

picture or diagram digitally projected on a screen is much better than just having it in the book. The old idea of having 3 computers in each classroom is not practical. It's better to invest in a computer lab or laptops in the classroom. I understand that some school systems in the U.S. already have laptops for each studentwith on line textbooks. In the long run, I believe that this will actually save money.

- Dear Mrs. Manchin, I appreciate you interest in educational technology. I must tell you that until the equipment and support infrastructure in our schools is improved, any efforts to use technology in instruction are "token", at best. I have planned lessons using SAS, I-know, TCR Connections, and other educational sites, brought massive cabinets with laptops to my classroom, and had absolutely no success. If we were a business attempting to operate with the inferior equipment and infrastructure available to us, we would be bankrupt. Our highschool students become frustrated when attempting to use the equipment, undermining whatever attempt at instruction we seek. I would compare it to the reaction of students if we would pull out a 1960 filmstrip with a record for sound. Their home and workplace technology so far surpasses that which we ask them to use, or are asked to use ourselves, that placing them on the equipment we have is an embarrassment. I plead for your help in securing funding from the state and business community to acquire the equipment and service we so desperately need.
- Teachers need more time to learn to use the technology. Schools often buy the technology that is already out of date. The computer industry uses the school budgets to enhance the bottom line. Schools should be using computers rather than computer industry using the schools.
- In all of the training sessions I have attended we spent most of the time waiting for the program (i.e. I Know & SAS) to come up and then when it did, I could not even apply it to my subject.
- The bandwidth on our system needs to be increased. A full time computer tech person in large schools and part time person in smaller schools.
- faster internet service for testing better online access to tec programs
- Assuring that all schools have access to new computers and educational programs that will help students prepare for the WESTEST since that has become our main focus with the NCLB mandate. Also, that there will be technical support available so as not take weeks before problems are corrected in your building. Possibly an on site systems op be available to correct the problems rather than waitng for Resa or the county to get someone to correct the problem(s). This has really been a problem in our school this year. Students have missed many opportunities to use and reinforce skills and concepts taught in the classroom because of this.
- Have more time built into the school day for computer enhancing activities, along with better computer access for all students.
- Please , please try to install at least one internet computer in every classroom.
- Dear Mrs. Manchin, West Virginia must continue to buy and upgrade the computer systems within our schools. Our students will not be prepared for the jobs of the future. West Virginia schools need to upgrade our curriculum now to keep up the changes in technology world. Examples: webpages, handhelds, laptops, etc. Many of our teacher are not qualified in technology concepts to keep our students up to date. Computer application classes COS need to be updated annually. Thank you for investigating use of technology in WV schools.
- First, I would like to thank the First Lady for showing an interest in our needs and ideas. She can help me use technology more effectively by providing me with up-to-date

equipment (flat screen monitors, etc.) in my office for student and counselor use. If First Lady Manchin has any control over the sophomore writing assessment, I would like to take this opportunity to let her know what a disaster this program was. She needs to contact the counselor in each high school who was in charge of testing to obtain the details regarding this program.

- Technology use is not a simple matter that can be reduced to one thing. I feel we need to embark on a systematic, sustained program to produce technically literate students, teachers, administrators, which includes central office personnel, etc. I would also recommend we develop secure sites devoid of commercialization. So much time is wasted sifting through the garbage to get the information you need. In short, we need a comprehensive approach to a complex circumstance. Thanks.
- Please help me use technology more effectively by making sure the funds are there to keep computers and personnel up to date.
- We need someone in the building highly trained to trouble shoot and to offer assistance on an as needed basis instead of having to wait for someone from central office who is over booked already
- Technology is not the answer to our problems. We need time to teach and good teacher. Technology is a tool not the answer to closing small school. Teacher in the small counties are hard to get. Low pay and housing is a big problem. Students are not getting the curriculum they need because of cuts in funding from the state. Technology is not going to give the students with low SES or special needs the help they need to meet AYP. WE need more days of school and more time to plan. The state has cut out the time we need to plan by changing the staff development days to OS. You need to get out into classroom and talk with teacher about their needs. Go to the small counties with not funds to operate. Charleston is not the place to look.
- 1. Make availalbe technology courses free of charge, with updated personnel and materials. Make these courses available across the state in the summer, and through out the school year in the evenings. 2. Make really good cameras available to teachers who take technology courses learning how to use them. 3. Make software available, such as Paint Shop Pro, Front Page, etc. for teachers that take training to use them. 4. Every teacher needs an updated laptop computer to work between school and home. 5. Make DSL, Cable or other fast Internet connections for teachers at home to access computers at school
- I wish we had some way to make technology easily accessable in the homes of the lower income students.
- Thanks for taking the time to help the teachers of this state. Your efforts are very appreciated.
- I am so excited to education minded people running our state. I am thrilled that you all are taking the leadership role and not letting the beaucracy stand in your way! Time is essential to the usage of tech in the classroom. We can provide sessions on training but teachers need time to practice and become familiar.
- All schools need a computer lab so all students can become used to using technology/computers in the future.
- Since we are trying to keep Windows 95 and 98 age computers alive, the times we have a full computer lab going is about 50%. We need the computers updated sooner. It would also be nice to have Microsoft Word and Powerpoint available in the lab on all computers. Borrowing the set of digital cameras from the RESA office is time consuming and sometimes is just not possible.

- We could use technology to teach classes to students in small rural schools so they would have the same exposure to classes they would ordinarily would not have due to inadequate staffing.
- We need more training involving new technological advancements in education. This would enable administrators to be more hands-on involving curriculum and instruction.
- Find a way to increase teacher attendance so that we can have our planning periods guaranteed everyday. In doing so we are assured to have at least some time to experiment with technology and plan lessons that incorporate it. Right now, we often spend two or three days per week covering classes for other staff members who are absent. You know teaching is one of the only professions that does not reward good attendance in some way. Think About It. I can be present everyday, while the person next to me misses once a week. We are both receiving the same pay, and my reward is that since I am working everyday, I get to use my planning period to cover his class. This is a real problem in our school. It may not be that bad other places, but it is a problem for us.
- We need more computer labs and more training in technology use.
- In order for teachers to use technology more effectively, they need to be more comfortable with its usage. Training is important. Counties need to have regularly scheduled professional development to help teachers who are at various levels of comfort with computer usage.
- Each school needs a technology integration specialist to mentor and coach teachers that are not technology literate as well as help students achieve CSOs.
- To use technology more effectively we first have to have better equipment in the classrooms and in computer labs. We must have a on site technology person.
- Mrs. Manchin, I feel that technology is a very important tool to have in the classroom. The students are being prepared for the workplace. I am excited to see how my students are becoming profiecient with technology. The can do research and create presentations that are exciting and interesting even on the third grade level.
- Be sure all teachers have the choice of being trained somewhere nearby their school or home.
- I think it is very important that we as educators realize the importance of the use of technology and appy it in all areas of the classroom. It is a tool to enhance our performance as teachers, it is a tool to solve problems, it is a necessity for our students to view technology and use technology as a tool that will change their futures. It is essential that all classrooms and school are equipped and upgraded to meet the every changing needs in the tech world...for too long we have had 2nd best...expecting our students to go out and compete with less than the best we can offer...it is time to make a decision about what is important and set our goals accordingly.
- Require basic use of computers in that each person knows how to use a spreadsheet, a word processor program and how to fill in forms and navigate around the page using the mouse and the index key.
- Having a troubleshooting help line would help us be able to keep our equipment up and running.
- there are many programs that are available, we do not have time to learn all the new programs available. if you do not use these programs everyday, you do not retain the skills you have done.
- We have a lot of old computers. Technology needs to be kept up to date. Also the internet connections need to work more quickly and reliably. Also the compass network

needs to operate. Also we need quicker repair times. All computers need to be working when you are using them with a class.

- We need access to quality Internet service. Also, teachers need to be equipped with a classroom computer and data projector to present on-line lessons. I am a Technology Integration Specialist for this year only, provided through the EETT grant. What I have heard over and over from the teachers at my schools is the consistent need for technology support personnel on a full-time basis for each and every school. Frankly, most everyone I have worked with is very willing to learn and use technology, but they want someone on staff full-time for support in troubleshooting and maintenance as well as for a resource person to provide updated information and techniques. Technology is ever-evolving, simplifying one aspect, while another becoming more complex. We need a full-time Tech person to keep on top of current technology findings and how to integrate them, yet technology seems to be the area first cut when it comes time for the budget crunch.
- It would be nice for students to have access to laptop computers (possibly a classroom set per grade level for classrooms to share). This would be a great asset for writing tasks, editing, taking notes, computer fluency, etc.
- The classroom teacher has less time to prepare, but more responsibilies in the programing of the computers to meet their classroom curriculum. I have spent hours this year after school and on the weekend attempting to program the Compass computers to meet my classroom curricullum.
- Technology is the now and future. We have made great progress in our state with our children. It is very important that we continue to bring new technology to our students. I want to see us progress over the next 4 years under Governor Manchin not regress.

Appendix E

- Some sort of computer that works with that person's vision, with no reak monitor.
- While I cannot think of anything that needs to be invented for the students, I can think of something that needs to be implemented.
  I heard of a program where all the students in a particular school receive laptops so that communication through the internet using
  e-mail and instant messaging would be possible for everyone in the school. If every student had access to the computer lab after
  school hours, then no student would be left out.
- I think technology is pretty good where it is today if something had to be invented it would be good and would just add on to the
  many things that we already have. Technology is very good and fun hands on thing for kids today. Thank You!
- Wearable computing.
- bla
- I would like to invent a special website that children could go to then type a categorie such as spelling,math,science.ect.
  Then the child could type who or what he/she needed to look into. I myself wish that they would invent that during my school days because it would help me in reports.ect.
- Desktop computers for each student.
- I would like to see better or more advanced tec. or computers.
- a computer that tells you what to do when you ask a question.
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- I would like to see the students to have labtops themselves. Like something that is required. Instead of using textbooks we could use online books and that way everything will be more compact and we could get things done faster. We would also save trees by not using paper as much. I hope we will be able to use it more and more.

Appendix F

- Some sort of computer that works with that person's vision, with no reak monitor.
- While I cannot think of anything that needs to be invented for the students, I can think of something that needs to be implemented.
  I heard of a program where all the students in a particular school receive laptops so that communication through the internet using
  e-mail and instant messaging would be possible for everyone in the school. If every student had access to the computer lab after
  school hours, then no student would be left out.
- I think technology is pretty good where it is today if something had to be invented it would be good and would just add on to the
  many things that we already have. Technology is very good and fun hands on thing for kids today. Thank You!
- Wearable computing.
- bla
- I would like to invent a special website that children could go to then type a categorie such as spelling,math,science.ect.
  Then the child could type who or what he/she needed to look into. I myself wish that they would invent that during my school days because it would help me in reports.ect.
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