

**WILLIAMSBURG ELEMENTARY SCHOOL
TECHNOLOGY PLAN
2008 - 2013**

PURPOSE: Williamsburg Elementary School will promote the use of technology as a tool to promote educational excellence. The school will encourage the best methods and practices and will create an educational environment in which

- Students and teachers use computer technology easily and without fear, as a tool for gaining and applying knowledge.
- Computer technology is used to broaden horizons, recognize and appreciate diversity, and to facilitate contact across communities and cultures.
- Teachers have the resources, time and training they need to serve as models for the effective and ethical use of technology.
- Computer technology is well integrated into the entire curriculum.
- Technology is readily and equally accessible to all students and teachers.
- Students understand the practical applications of technology.
- Computer technology extends beyond the school's walls to reinforce connections with homes businesses and other community facilities.
- Technology aids the school in its mission to be a model for sustainability.
- Students use technology safely and responsibly.

RATIONALE: The school believes that to educate for the future means to teach students **how to learn**. Students must be able to adapt to a rapidly changing environment and must see themselves as continual learners who know how and where to access, analyze, and present information. With nearly instantaneous global communications, the quantity of information doubling every seven years,

and rapidly developing technology, the adults of the future will have to be flexible, and be able to solve problems not even imagined when they were in school.

The school believes that technology has the potential to promote this vision. Technology is viewed not as replacement for teachers but as a powerful tool that teachers can use to engage the intellect of students. The school recognizes that the purchase of hardware and software and building facilities is not enough. We must provide ongoing training and professional development, which is geared towards the specific and individuals, needs of the current and future faculty of the Williamsburg schools.

GOALS :

1. To continually update our technology plans in order to meet and exceed all state of Massachusetts criteria. The plan will serve as a tool to guide future technology expenditures. Develop curriculum goals, plan professional development, and outline budgetary requirements. In addition the plan will satisfy eligibility requirements for available funding. Assessment of our telecommunications services, hardware, software and other services that is completed as part of our annual budget setting process. This assessment will enable cost effective technology access with the goal of improved student learning.
2. To purchase and provide instruction in the use and application of software resources appropriate to a PK - 6 setting. Emphasis will be placed on classroom integration. This will be facilitated by joint planning and teaching time of technology and regular teaching staff.
3. Every effort will be made to continually

enhance technology use and technology literacy of teachers and students. Increasing access of appropriate equipment and software to students and teachers will facilitate this. The access to equipment and software will be supported by ongoing professional development of teachers and student learning opportunities.

What was accomplished last year (from July 1, 2008 to June 30, 2009) Our evaluation process is of a formative nature and encourages the district to monitor its progress towards the specified goals and make mid-course corrections as new opportunities arise. The formative work assessment includes both formal and informal data including interviews, student testing data. Our process is brought to a close through a summative process of completing a final evaluation of the each of our program efforts with recommendations for the next year.

- The school website was enhanced to include health information and forms.
- We evaluated and updated the tech plan.
- Teachers utilized United Streaming video clips in the curriculum. A refresher course or individual coaching was used to increase the use of video in the classroom.
- We used the TSAT tool to analyze needs for PD and offer after school course to that meets the identified needs.
- The Tech Troops program was continued.
- We investigated and implemented new tech projects for first and second graders.
- We trained staff on new online purchase program.
- We continued to utilize tech with students with disabilities.
- We deepened our use of animation and robotics to enhance STEM education for students.

E-rate Expenditures 2008 - 2009 \$200 was used to help defray the cost of the district Teleconferencing Connection through Comcast. Our intent is to continue having E-rate help defray our costs for telecommunications services in the next fiscal year.

2009 - 2010

1. The school web site will be enhanced to increase relevance to parents. This includes providing more forms online and providing teacher emails and contact information.
2. We will evaluate and update technology plan.
3. Teachers will utilize United Streaming video clips (aligned with state standards) in their curriculum.
4. The Tech Troops program for grade 6 students will be continued. Tech Troops helps with repairs and maintenance in the school and also receive additional instruction on technology such as electronics kits, computer architecture, movie making, robotics, and programming.
5. We will investigate and implement new projects for first and second graders including keyboard familiarization.
6. We will continue to train staff on new online purchase order system.
7. We will continue to utilize technology to aid students with disabilities. We use predictive writing software, text-to-speech software, AlphaSmart keyboards, and other specialized software for specific students. SPED teachers have new laptops for their own work and for work with students.
8. We will continue curriculum integration work and professional development.
9. We will implement initial ways of how

technology can aid the school's new sustainability mission.

10. We are in the second year of a new robotics program for early elementary students called Lego WeDo. We will also investigate the use of Terrapin Logo BeeBot robots for PK-1 students.
11. We are piloting the use of intelligent whiteboards in sixth grade including votes. A Elmo will also be installed in sixth grade in conjunction with the intelligent whiteboard.
12. The district is providing leadership, curriculum, and instruction to 8 districts in the use of robotics for elementary and middle school students through an ARRA grant. This year, we will train 14 teachers in the use of the Lego MindStorms robotics kits.

2010 - 2013

1. Review and update assistive technology for SPED and 504 students.
2. Update all technology in conjunction with a planned building renovation. This includes new computers, wireless access everywhere, intelligent whiteboards for classrooms, and an updated fileserver.
3. To increase our professional development opportunities and to focus these offerings on using technology to meet the state curriculum standards.
4. To continue to utilize MCAS analysis and sample test software to increase MCAS readiness.
5. To increase the use of standards aligned, video clips in the curriculum.
6. The district is providing leadership, curriculum, and instruction to 8 districts in the use of robotics for elementary and middle school students through an ARRA grant. We will train 19 teachers in the use of the Lego WeDo robotics kits.

7. Investigate the use of Web 2.0 technologies in the curriculum.
8. Investigate, purchase, and implement technology to contribute to the school's sustainability mission. This could include solar cars, oven, and/or wind turbines.
9. Increase the number of laptops available at each school.

Evaluation Process. Please note that our evaluation process is of a formative nature and encourages the district to monitor its progress towards the specified goals and make mid-course corrections as new opportunities arise. The formative work assessment includes both formal and informal data including interviews, student testing data, and the like. Our process is brought to a close through a summative process of completing a final evaluation of the each of our program efforts with recommendations for the next year.