

Belleville Mennonite School

Three Year Technology Plan

July 2009 to June 2012

Belleville Mennonite School

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2009-2012

Belleville Mennonite School is committed to providing access to computer technology that will prepare students to be productive members of the 21st workplace. Teachers use technology in ways that enriches and enhances the teaching of defined curricular objectives. Technology is a tool and not an end in itself as teachers and students consistently strive toward creative uses of available computer technology.

This three year technology plan includes,

- realistic goals and strategies of how technology will improve education,
- a professional development plan that ensures teachers know how to use technology,
- a description of how an assessment of current technology is currently updated,
- a budget analysis outlining the costs of funding all three years of the plan, and
- an evaluation tool measuring annual progress of the goals.

At Belleville Mennonite School we seek to provide all the skills needed by our students. In addition to an excellent classical education we also seek to teach students how to effectively use and interact with today's ever changing technology. Every classroom at BMS has network drops from which students can access both the internal network services that we provide as well as the education opportunities provided by the Internet. We have taken steps to ensure that the computer resources provided by the school are being used for profitable educational purposes. We also offer courses in basic computing such as keyboarding for younger students and computer applications for junior high and high school students. We also offer more advanced courses to high school students, which they learn more in depth concepts such as web design, computer maintenance as well as computer assembly and repair, computer animation and digital video editing.

At BMS we have a student to computer ratio of one computer per three students this provides every student with adequate access to our computer resources. Each student is provided with personal storage on our network with which they can store their papers projects and other work that they accumulate. They are also given access to software that is appropriate for their educational development such as Microsoft Word, Excel, Access and Power Point additional software includes Adobe Photoshop and PageMaker and many others.

Goals and Strategies

eRate Tech Plan requirement:

The plan must establish clear goals and a realistic strategy for using telecommunications and information technology to improve education or library services;

Goals

1) Teachers will increase their use of the Internet to provide learning resources and opportunities for students living in a rural area which otherwise they would not have access to.

- a. Teachers will incorporate web based simulations and other online learning tools such as Quia and Atomic Learning to enrich the learning process. These two services will allow teachers to individualize curricular goals for students.
- b. Teachers will assign multimedia projects which will have students demonstrating their learning on designated topics. In addition to writing papers, students will be able to create PowerPoint presentations and digital movies from the information they obtain through the Internet.
- c. Teachers will participate in online multicultural learning exchanges that help students to realize the world wide community they live in. Email exchanges with other students around the world will help students become global citizens and develop a healthy respect of people from various cultures.
- d. Teachers will incorporate a web based learning environment like Think.com to extend the walls of the classroom beyond the four walls of the classroom and into the world. With Think.com, students will be able to collaborate with each other and communicate with their teacher beyond the class period.
- e. Teacher communication with parents will increase with the use of email and web-based clearinghouse for course information and student grades.

2) Students will use the Internet's resources in every core subject to gain access to materials otherwise not possible due to the rural area.

- a. Students will have access to research and information resources through services like PowerLibrary. PowerLibrary resources range from educational journals to local, state and national newspapers. Also included are online encyclopedias for student research projects.
- b. Students have the opportunity to enroll in Advanced Placement courses through providers such as Advanced Academics and Apex Learning. Courses such as Advance Biology, Sociology, Psychology, Calculus and Statistics are available to advanced students.
- c. Students will learn through watching streaming educational video through a service like UnitedStreaming or Digital Curriculum. As more online video libraries grow, VCR's are being replaced by video streaming services like UnitedStreaming as well as DVD's.
- d. Students will develop their keyboarding skills through web-based program Typing Pal Online. Keyboarding is best taught and learned through daily practice both at home and school. Online typing programs such as Typing Pal Online provide students keyboard instruction at school and at home.

- e. Students will participate in video conferencing learning events.
- 3) Teachers will strive to effectively integrate computer technology for every chapter to enrich and enhance the learning process and environment through the use of computers in the classrooms, computer labs, mobile presentation carts, GPS handhelds, SMART Board and hand held computers.**
- a. Teachers will have the option to participate in monthly technology training sessions designed to help them use the technologies described in the above two points.
 - b. Teachers will also develop and annually integrate into the curriculum one new way of using technology.
 - c. Tools that teachers have access to include a classroom pack of handheld computers, mobile presentation carts equipped with laptop and projector, GPS handhelds as well as two computer labs.

Year One: Year 2009-2010

- Upper Elementary through High School teachers will continue to integrate online learning tools such as Think.com and Quia.
- Students in Grades 5 to 12 will be creating multimedia projects to demonstrate their learning.
- All upper elementary, middle, and high school students will participate in at least one multicultural learning exchange during the school year.
- Upper Elementary through High School teachers will continue to use GradeConnect, a web based school management system to facilitate communication between school and home.
- Upper Elementary through High School students will use PowerLibrary for research purposes with continual instruction integrated in 7th through 9th grade computer classes.
- 30% of High School students will take a course online
- Elementary students will practice their keyboarding skills using online program Typing Pal Online.
- All teachers will show streaming video to their students through unitedstreaming.com.
- Middle and High School students will participate in video conference based learning events

Year Two: Year 2010-2011

- Middle and High School teachers will continue to integrate online learning tools such as Think.com and Quia.
- Teachers of students in Grades 5 to 12 will continue to assign multimedia projects
- Elementary and Middle School students will continue to participate in multicultural learning exchanges.
- High School teachers will continue to use GradeConnect, a web based school management system to facilitate communication between school and home
- Middle and High School students will use PowerLibrary for research purposes
- 35% of High School students will take a course online

- Elementary students will practice their keyboarding skills using online program called Typing Pal online
- All teachers will incorporate streaming video provided through UnitedStreaming.com to their students
- High School students will participate in video conference based learning events

Year Three: Year 2011-2012

- Upper Elementary through High School teachers will continue to integrate online learning tools such as Think.com and Quia.
- Students in Grades 5 to 12 will demonstrate their learning through creating multimedia projects with programs like Powerpoint..
- All students will participate in at least one web/email based multicultural learning exchange during the school year.
- Upper Elementary through High School teachers will use a web based school management system to facilitate communication between school and home.
- Upper Elementary through High School students will use PowerLibrary for research purposes
- 40% of High School students will take a course online
- Elementary students will practice their keyboarding skills using online program
- All teachers will show streaming video to their students
- Middle and High School students will participate in video conference based learning events

Professional Development

eRate Tech Plan requirement:

The plan must have a professional development strategy to ensure that staff knows how to use these new technologies to improve education or library services;

Belleville Mennonite School teachers will have access to the following technology training opportunities:

- Computer Training sessions at the local Intermediate Unit
- Periodical in-house computer technology training sessions
- One on one training and support provided by the Director of Technology
- Web-based learning opportunities such as the Virtual Teaching & Learning Community of STAR-Online and paprofessionaleducation.org
- Participation in conferences such as the Keystone Technology Integrator training, National Educational Computing Conference, and the Pennsylvania Educational Technology Expo and Conference.

Teachers are encouraged to set a technology related goal of how they want to integrate technology into their classroom in a new way. The Director of Technology will support each teacher in this endeavor. Teachers will be encouraged to do this in the beginning of the year faculty in-service training. At the end of the year, they will file a brief report on the achievement of their goal.

Year One: 2009-2010

- Teachers will be encouraged to take at least one computer training session at the local IU
- Teachers will be encouraged to attend the periodical in-school computer technology training sessions
- Student tech team composed of Middle and High School students will provide support and training to teachers.
- The Director of Technology will meet with teachers to establish a goal of developing a new way of integrating technology.
- Teachers will be encouraged to participate in web-based learning opportunities
- The Director of Technology will attend PETC.
- The Director of Technology will participate in the local Intermediate Unit Technology User group monthly meeting as his teaching schedule permits.

Year Two: 2010-2011

- Teachers will be encouraged to take at least one computer training session at the local IU
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- Teachers will be encouraged to participate in web-based learning opportunities
- The Director of Technology will attend PETC and NECC
- High School teachers will receive training in how to use video conferencing.
- The Director of Technology will participate in the local Intermediate Unit Technology User group monthly meeting as his teaching schedule permits.

Year Three: 2011-2012

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- Teachers will be encouraged to participate in web-based learning opportunities
- The Director of Technology will attend PETC.
- Middle School teachers will receive training in how to use video conferencing.
The Director of Technology will participate in the local Intermediate Unit Technology User group monthly meeting as his teaching schedule permits..

Assessment

eRate Tech Plan requirement:

The plan must include an assessment of the telecommunication services, hardware, software, and other services that will be needed to improve education or library services;

An assessment of computer technology is taken annually in conjunction with the inventory of Intermediate Unit owned computer equipment located in the school.

An annual assessment of the school's use of technology by students will be conducted as part of the National Net Day Speak Up initiative conducted in the fall of each year. A bi-annual survey of teacher's computer skills and interests is conducted to assess equipment requests and potential teacher training issues.

Year One: 2009-2010

- Students in grades 6 to 10 will take part in the National Net Day Speak Up technology survey. The results of this survey will be shared with faculty and be used to make decisions concerning future technology purchases.
- The Director of Technology will take an inventory in the fall of all equipment on loan by the local Intermediate Unit.
- The Director of Technology will take an inventory during the summer of all computer technology.
- Teachers will be given a survey concerning their computer skills, interests, and equipment needs.

Year Two: 2010-2011

- Students in grades 6 to 10 will take part in the National Net Day Speak Up technology survey. The results of this survey will be shared with faculty and be used to make decisions concerning future technology purchases.
- The Director of Technology will take an inventory in the fall of all equipment on loan by the local Intermediate Unit.
- The Director of Technology will take an inventory during the summer of all computer technology.

Year Three: 2011-2012

- Students in grades 6 to 10 will take part in the National Net Day Speak Up technology survey. The results of this survey will be shared with faculty and be used to make decisions concerning future technology purchases.
- The Director of Technology will take an inventory in the fall of all equipment on loan by the local Intermediate Unit.
- The Director of Technology will take an inventory during the summer of all computer technology.
- Teachers will be given a survey concerning their computer skills, interests, and equipment needs.

Budget

eRate Tech Plan requirement:

The plan must provide for a sufficient budget to acquire and support the non-discounted elements of the plan: the hardware, software, professional development, and other services that will be needed to implement the strategy;

Funds for computer technology come from the school's operating budget. In addition, the school pursues grant money to help fund initiatives such as a classroom pack of handheld computers. Following is a projected list of expenditures:

Year One – 2009-2010

DSL connection to the Internet (3 MB up, 512K down) \$126.95 a month

Purchase two subscriptions of Atomic Learning - \$160

Purchase UnitedStreaming and NetTrekker through IU membership fee

Purchase web hosting solution for school's website

Purchase Typing Pal Online subscription - \$250

Purchase five subscriptions of Quia - \$250

Cost of Director of Technology attending PETE - \$200

Telecommunication services (local and long distance) - \$1600

SecureSchool subscription – cost is covered by the local IU

Year Two – 2010-2011

DSL connection to the Internet (3MB up, 512K down) \$126.95 a month

Purchase three subscriptions of Atomic Learning - \$240

Purchase UnitedStreaming and NetTrekker through IU membership fee

Purchase web hosting solution for school's website

Purchase Typing Pal Online subscription - \$250

Purchase five subscriptions of Quia - \$250

Cost of Director of Technology attending PETE and NECC- \$500

Telecommunication services (local and long distance) - \$1600

SecureSchool subscription – cost is covered by the local IU

Year Three – 2011-2012

DSL connection to the Internet (3MB up, 512K down) \$126.95 a month

Purchase four subscriptions of Atomic Learning - \$320

Purchase UnitedStreaming and NetTrekker through IU membership fee

Purchase web hosting solution for school's website

Purchase Typing Pal Online subscription - \$250

Purchase five subscriptions of Quia - \$250

Cost of Director of Technology attending PETE- \$200

Telecommunication services (local and long distance) - \$1600

SecureSchool subscription – cost is covered by the local IU

***Funds for professional development are currently being provided through the local Intermediate Unit.*

Evaluation

eRate Tech Plan requirement:

The plan must include an evaluation process that enables the school or library to monitor progress toward the specified goals and make mid-course corrections in response to new developments and opportunities as they arise.

The Director of Technology will conduct an end-of-a-school year evaluation to track the progress of how the school is meeting the defined goals and the effectiveness of the defined strategies.

This evaluation will be done using both a written survey, conversations with teachers, and formal teacher interviews.

Year One: 2009-2010

- The Director of Technology will conduct a review of this document once a year to evaluate whether or not the goals stated in this document are being met.

Year Two: 2010-2011

- The Director of Technology will conduct a review of this document once a year to evaluate whether or not the goals stated in this document are being met.

Year Three: 2011-2012

- The Director of Technology will conduct a review of this document once a year to evaluate whether or not the goals stated in this document are being met.

Attachments:

2007 NetDay Speakup Survey Grades 6-8

2007 NetDay Speakup Grades 9-12

2008 Software Inventory

2008 Hardware Inventory

Examples of regular Tech emails sent to teachers

CIPA Compliant Certification
Belleville Mennonite School

Belleville Mennonite School of Belleville, PA is CIPA compliant according to the Children's Internet Protection Act. The software tool that we use is SecureSchool and it currently runs on a box in-house. All computers in the school have SecureSchool as their mandatory Internet filter.

Signature and Date

Electrical System Certified
Belleville Mennonite School

The electrical system at Belleville Mennonite School has been evaluated and is able to handle the components of this Technology Plan.

Signature and Date