

MSAD #33 TECHNOLOGY PLAN

**Dr. Levesque Elementary School
Wisdom Middle/High School
St. John Valley Technology Center**



July 1, 2012 - June 30, 2015

1. Community and Parental Involvement

MSAD #33 THREE-YEAR TECHNOLOGY PLANNING COMMITTEE May 2012

- Tammy LeBlanc, Principal and Chairperson
- Dr. Fern Desjardins, Superintendent
- Scott Carter, Technology Coordinator, MSAD #33
- Nicholas Textor, Teacher, Wisdom Middle/High School
- Lynn Ouellette, Teacher, Wisdom Middle/High School
- Meranda Castonguay, Dr. Levesque Elementary School
- Lisa Bernier, Principal
- Middle school students
- High school students
- Community members

A planning committee consisting of teachers, administrators, parents and community members meets at least one time a year to evaluate technology goals and to assess the implementation plan. The committee includes a broad representation of the school and the community at large. Community involvement in education-related planning is on going and essential to ensure depth and breadth of knowledge regarding technology as it pertains to educating students.

Teachers will be encouraged to:

- Maintain MOODLE and Web2School to post homework assignments, student project timelines, scheduled assessment activities, grades, as well as other types of information that parents may request.

Parents in our community will:

- Have access to Web 2 School, a student/guardian login to view items such as student schedules, report cards, and transcript information;
- Be invited to attend open forum/informational evenings in order to become more familiar with the new Maine Learning Technology Initiative (MLTI), also known as the "Laptop Project." The focus of these events will be to inform parents on student responsibility of the laptop and how students and teachers are using the laptops in the learning/teaching process;
- Be invited to receive training in the use of Web 2 School to access student information. To ensure parent participation in such trainings, a flyer will be mailed to all parents informing them of the training opportunities;

- Be encouraged to connect with school by viewing school events on the MSAD # 33 website which will be updated by the administration and the webmaster at www.msad33.net ;

2. Vision

We believe our schools must be a primary force in the introduction and use of technology for the purpose of educating our children and supporting our communities. School personnel, including teachers, administrators, and students will be required to use technology in all aspects of teaching, learning, and responding to community needs and expectations. To accomplish this, we envision full collaboration among students, teachers, parents, school administrators, community members, and service providers in the planning and implementation phases of the advancement of the use of technology in our school system and the communities it serves.

3. Goals

Goal One:

Our students and teachers will use technology resources in all subjects and at all grade levels PreK-12 to enhance academic achievement. Students will be taught to improve their ability to define problems and frame questions which result in researching, recording, processing, and communicating data and knowledge from both analog and digital data including text, audio, video, and graphic elements.

Goal Two:

Our students will be provided and use state of the art technology tools to locate, collect, analyze, and evaluate information from a variety of sources so that they may become informed decision-makers as they endeavor to become knowledgeable, involved, responsible, and responsive participants in our democratic society and the world at large.

Goal Three:

Laptops, classroom projectors, Interactive White Boards, iPads, and the Tandberg will be available to students, teachers, and the community.

Goal Four:

Our district will continue to maintain the position of Webpage Master to increase efficiency, thoroughness, and accuracy in the development and regular updating requirements of the district webpage.

Goal Five:

Our district will utilize regional technology linkages to enable increased communication and collaboration among students, teachers, parents, and community members. The Technology Planning Committee will provide new and alternative methods of professional development/training for school personnel and community leaders by being committed to meeting at least once a year to report on and monitor the progress of the technology plan implementation and oversee the intended use of funds.

4. Identify Necessary Technology

MSAD #33 has made impressive strides over the years in establishing a strong base of technology equipment and connectivity in our school district. However, as technology quickly changes and advances, our teachers and students will benefit greatly from the continued introduction of technologically advanced computers in both the PC and MAC platforms in the classrooms of our schools.

Currently, the District's computer use, inventory, needs assessment (via survey monkey), and implementation plan are provided at the end of this plan.

In order to increase the effectiveness and manageability of our implementation of the Common Core State Standards, we will develop and manage our curriculum maps through the use of web-based data management software designed for this purpose. Specifically, our district will continue to utilize the Curriculum Mapper. Teacher and administrator training in the use of this software will be on-going.

5. Collaboration with Adult Literacy Service Providers

Our district collaborates in a regional Adult Education Program sponsored by MSAD #33, MSAD #27 and the Madawaska School Department. Our schools have been used as sites for delivering literacy instruction to adult community members. With increased technological capabilities, this is a very real option for community members in MSAD #33 who wish to expand their personal knowledge in a variety of fields, yet who cannot travel long distances to do so. This collaborative, regional model for delivering adult literacy learning opportunities was developed to address the costs associated with providing such programs, the challenges that a rural environment presents (especially travel during long winter months), and our dwindling population.

6. Strategies for Improving Academic Achievement and Teacher Effectiveness.

The funds targeted for expanding/updating technology in our schools will align with our goals and will also be used to provide professional development opportunities for all of our teachers and administrators. These funds will be used to acquire contracted assistance to help teachers and students continue to develop their skills and knowledge in the use of technology for teaching and learning. This will be accomplished through the use of our District Technology Specialist who can work directly with teachers and students one-on-one to increase the effectiveness of using technology to improve teaching and increase academic achievement or via outside contracted resources.

Funds will be used to acquire software that personalizes and individualizes learning experiences for all students in all subject areas. We will continue to utilize Accelerated Reader, Star Math, and Star Reader in grades 2-12. Because of the diagnostic, self-paced, continuous self-assessment features of these programs, teachers will be able to develop individualized learning plans for all students, including those with special learning needs or an RTI plan.

Funds will be used to acquire the necessary hardware and software needed to improve students' learning about and exploration of our microscopic world. A computerized microscope is available at the middle/high school, and it facilitates instruction by providing the teacher with greater control over managing student

observations and pointing out specific features of a particular sample on the microscope. In the future, curriculum offerings for students will invariably increase due to our advanced technology (e.g. forensics).

Funds will also be used to promote the use of technology in our schools to increase student learning and teacher effectiveness. The topics provided above do not prevent us from exploring other possibilities for incorporating technology in our District.

7. Integration of Technology with Curricula, Instruction, and Assessment

Regarding the integration of technology with curricula, instructions, and assessment, please refer to number six above and the following:

Students, parents, and teachers in grades 7-12 utilize Web2School, an electronic grade book, in the assessment process. This system is designed to manage classroom level assessment record-keeping and management and has proven to be a very efficient way of dealing with an otherwise burdensome task.

Locally, we want to be able to track or assess our district's implementation of the Common Core state standards through the use of special data management software that deals specifically with such requirements. Again, this will involve teacher professional development as well as support for the continued user licenses of software such as Curriculum Mapper designed to manage this type of tracking.

8. Technology Type and Costs, and Coordination with Funding Resources.

Please refer to the attached Technology Implementation Plan for details on this topic.

9. Supporting Resources.

In order to increase the use of technology by teachers and students, we will continue to replace outdated textbooks with the latest copyright version of textbooks and DVD's in all curriculum areas. Texts are also loaded with connections to technology.

Any software needed to support this three-year plan will require site licenses in both schools.

In order to address the individual learning needs of our special needs students, we continue to support and purchase software and provide updated computers in the resource rooms to assess students and to help individualize instruction to support the core curriculum (e.g., Kurzweil, DIBELS).

To enhance students' experiences in our lab courses, we will acquire a variety of software that will provide greater depth and breadth of student exploration, particularly in math and science. This will help us address the need to provide a greater range of learning experiences to all of our students.

We believe it is important to pursue and expand upon this goal because we cannot predict what type of technical environment they will encounter once they leave high school.

We will need to continue to make available technology specialists who will assist teachers, administrators and students in advancing the use of technology in the school environment to maximize student achievement and teacher performance throughout the district. And, we will need to fully support the professional development of students, teachers, and parents as opportunities present themselves.

10. Steps to Increase Accessibility.

Currently, the District has a wide array of technology available to students, staff (see inventory list), parents, and the community and plans to do the following to increase accessibility:

- Continue to provide access to one-to-one computing
- Increase the use of video conferencing equipment to support curriculum
- Increase the use of Interactive White Boards to enhance teaching and learning
- Expand the use of iPads
- Expand the uses of Web2school
- Explore a more efficient District e-mail system
- Consider including computer and technology courses at the high school

11. Promotion of Various Curricula and Teaching Strategies that Integrate Technology.

- All middle and high school students will have continued access to laptops. Teachers will continue to receive professional development in the use of this resource as a teaching tool through MLTI meetings and other opportunities. MSAD # 33 may also explore the possibility of recruiting a technology integration specialist to provide on-going professional development in the use of technology to enhance students' learning experiences and teachers' effectiveness in the classroom.
- MSAD # 33 will continue the successful use of Accelerated Reader and Accelerated Math in order to better meet the needs of apprehensive readers and learners.
- New courses in the use of digital and video cameras will help our students not only learn about this technology but also to use this technology to accomplish educational objectives in the area of communication and broadcasting. Publications class (yearbook) will continue to be web-based and in digital format.
- MSAD #33 will continue to update its textbook inventory to include textbooks that not only support the Common Core State Standards, but also make frequent connections with the World Wide Web as an additional resource for students' learning.
- MSAD # 33 will continue to provide the means for students to enroll in courses offered via video conferencing.

12. Professional Development.

The District recognizes that professional development is an on-going process, not a discrete event. We also recognize that, just as our students learn and progress at different rates and in different ways, adults likewise are at many different stages of development in the field of technology and will progress at varying rates on the continuum of effective use of technology use in the learning environment. Given this variety of needs, we envision a great deal of flexibility and variation in our pursuit of professional development.

We will ensure that local, state, and federal funds designated for staff development will be used to train teachers in the integration of technology in their instructional practices. We will encourage teachers to include technology integration courses/workshops in their certification renewal plans. We will require that teachers who have access to technological tools attend appropriate in-service activities that relate to integrating technology into teaching practices and that teachers develop one technology goal each year.

Our technology coordinator will work with individual teachers who have expressed concern about their knowledge/skills level regarding the use of technology as a teaching tool. This on-site support is essential if all teachers are to ultimately feel confident about using technology and to appreciate the potential that these tools have not only for teacher effectiveness but also for student achievement.

13. Innovative Delivery Strategies.

Integration of technology into the teaching and learning process will be expected for all classrooms. MLTI members, librarian, District Technology Coordinator, administrators, and outside professional technology resource personnel will provide teachers with professional development in the following areas:

- Maintaining teacher websites (ex. Moodle accounts)
- iPad trainings
- Microsoft Office-esque
- Training in use of LCD projectors and Interactive White Boards
- Videoconference usage
- Web2School usage
- Google Apps
- Support for Early College on-line courses and AP courses

14. Accountability Measures.

The Technology Planning Committee will continue to meet at least once a year to monitor progress and evaluate goals of the three-year District Technology Plan. Additionally, a technology assessment survey will be administered to instructional staff in an effort to gather data regarding the frequency of use of technology and teacher needs in teaching practices. As current data validates, if teachers have done a good job implementing our three-year technology plan, MSAD #33 should continue to see gains in the use of technology for student instruction. The assessment results are helpful in developing the technology plan and are attached below for the elementary, middle/high school, and technology center.

| PERCENTAGE USE OF TECHNOLOGY IN K-12 CLASSROOMS | | | | | | | | | | |
|--|------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| SUBJECT | 0-9% | 10-19% | 20-29% | 30-39% | 40-49% | 50-59% | 60-69% | 70-79% | 80-89% | 90-100% |
| MATHEMATICS | | | 1 | 1 | 1 | 1 | | 2 | | |
| ENG/LANG. ARTS | | | 1 | | 1 | 1 | | | | 1 |
| SCIENCE | | | 1 | | 1 | | | 2 | | |
| SOCIAL STUDIES | | | 1 | 1 | 2 | 1 | | 2 | | 1 |
| CLAS. LANGUAGE | 1 | 1 | | 1 | 1 | | | | | |
| MUSIC | | | | | 1 | | | | | |
| ART | | | | | | 1 | | | | |
| HEALTH | | 1 | | 1 | | | | 1 | | |
| ALL SUBJECTS | | 1 | 2 | | | | | | | 1 |
| SJVTC | | | | 1 | | 1 | | | 1 | |
| SPECIAL EDUCATION | | | | 2 | | | | | 1 | |

Computer Inventory

| Teacher/Room | Total # of Computers | Windows Based | Apple Based | Student Use | Teacher Use |
|---------------------|----------------------|---------------|-------------|-------------|-------------|
| Meranda Castonguay | 30 | 2 | 28 | 27 | 1 |
| Doreen Paradis | 28 | 1 | 27 | 26 | 2 |
| Deb Ouellette | 20 | | 20 | 19 | 1 |
| Tracy Hebert | 4 | 3 | 1 | 3 | 1 |
| Library | 6 | 6 | | 5 | 1 |
| Guidance Office | 1 | 1 | | | 1 |
| Principal's Office | 4 | 1 | 3 | | 4 |
| Nurse's Office | 1 | 1 | | | 1 |
| Café | 2 | 2 | | | 2 |
| Music Room | 1 | 1 | | | 1 |
| Liza Pelletier | 8 | 3 | 5 | 6 | 2 |
| Sherry Dubis | 4 | 3 | 1 | 2 | 2 |
| Computer Lab | 39 | 21 | 18 | 39 | |
| Amy Bouchard | 2 | 1 | 1 | 1 | 1 |
| Jessica Picard (K) | 2 | 1 | 1 | | 2 |
| Jessica Picard (PK) | 3 | 3 | | 3 | |
| Janice Ouellette | 2 | 2 | | 1 | 1 |
| | 157 | 52 | 105 | 132 | 23 |

| Teacher/Room | Total # of Computers | Windows Based | Apple Based | Student Use | Teacher Use |
|------------------|----------------------|---------------|-------------|-------------|-------------|
| Paul Ballerstein | 24 | | 24 | 23 | 1 |
| Kathy Theriault | 6 | 1 | 5 | 5 | 1 |
| Denise Thibeault | 5 | 2 | 3 | 4 | 1 |
| Cindy Daigle | 16 | 2 | 14 | 16 | 2 |
| Ben Rioux | 11 | | 11 | 10 | 1 |
| Guidance | 1 | 1 | | | 1 |
| Library | 25 | 10 | 15 | 24 | 1 |
| Office | 4 | 1 | 3 | 1 | 3 |
| Connie Coultier | 13 | | 13 | 12 | 1 |
| Robin Levasseur | 15 | 1 | 14 | 13 | 2 |
| Vicki Deschaine | 8 | 1 | 7 | 6 | 2 |
| Lynn Ouellette | 16 | | 16 | 15 | 1 |
| Bonnie Coveney | 2 | 1 | 1 | | 2 |
| Café | 2 | 2 | | | 2 |
| Leslie Marquis | 24 | | 24 | 23 | 1 |
| Nick Textor | 19 | 1 | 16 | 17 | 2 |
| Theresa Cerceo | 2 | 1 | 1 | 1 | 1 |
| Mark Sirois | 1 | | 1 | | 1 |
| | 194 | 24 | 168 | 170 | 26 |

| Teacher/Room | Total # of Computers | Windows Based | Apple Based | Student Use | Teacher Use |
|------------------|----------------------|---------------|-------------|-------------|-------------|
| Kevin Daigle | 2 | 1 | 1 | | 2 |
| Chris Haskins | 6 | 5 | 1 | 4 | 2 |
| Charles Collin | 2 | 1 | 1 | 1 | 1 |
| Vince Sirois | 29 | 26 | 3 | 26 | 3 |
| Pam Caron | 6 | 5 | 1 | 4 | 2 |
| Marie May Chasse | 6 | 5 | 1 | 5 | 1 |
| Karen Michaud | 2 | 2 | | | 2 |
| Dave Morse | 2 | 1 | 1 | | 2 |
| Jackie Collin | 2 | 1 | 1 | | 2 |
| Fern Desjardins | 2 | | 2 | | 2 |
| | 59 | 47 | 12 | 40 | 19 |

**MSAD #33 TECHNOLOGY IMPLEMENTATION PLAN
July 1, 2012 - June 30, 2015**

| System Level and Activity | FY '12/13 | FY '13/14 | FY '14/15 |
|--|-----------|-----------|-----------|
| 1. Dr. Levesque Elementary School | | | |
| Network administration and infrastructure maintenance | 3000 | 2000 | 2000 |
| Upgrade/replace classroom teachers' computers | 5000 | 5000 | 5000 |
| Network printers/maintenance | 1000 | 1000 | 1000 |
| Site licensed software | 4000 | 4500 | 5000 |
| Classroom mounted projectors | 2400 | 1200 | 1200 |
| Curriculum mapper | 800 | 800 | 825 |
| Laptop maintenance | 4200 | 1000 | 1000 |
| Video conferencing system | 1500 | 1500 | 1500 |
| Professional Development | 1500 | 1500 | 1500 |
| Sub Total | 23,400 | 18,500 | 19,025 |
| 2. Wisdom Middle School/High School | | | |
| Network administration unit and infrastructure maintenance | 2000 | 3000 | 2000 |
| Guidance | 0 | 1500 | 1500 |
| Network printers/maintenance | 2500 | 1000 | 1000 |
| Site licensed software | 6500 | 7000 | 7500 |
| Wireless capabilities | State | State | State |
| Curriculum mapper | 700 | 700 | 725 |
| Grades 7-8 one-to-one computing | 10500 | 10500 | 10500 |
| Grades 7-12 staff MLTI | 4900 | 4900 | 4900 |
| Grades 9-12 one-to-one computing | 20000 | 10000 | 20000 |
| Laptop maintenance | 1500 | 1500 | 1500 |
| Video conferencing system | 1500 | 1500 | 1500 |
| Professional Development | 1500 | 1500 | 1500 |
| Sub Total | 51,600 | 43,100 | 52,625 |

| | | | |
|--|---------|---------|---------|
| 3. St. John Valley Technology Center | | | |
| Network administration unit and infrastructure maintenance | 2000 | 2000 | 2000 |
| Administration | 0 | 1500 | 1500 |
| Site licensed software | 5500 | 5500 | 5500 |
| Network printers/maintenance | 500 | 500 | 500 |
| Wireless capabilities | State | State | State |
| Video conferencing system | 1500 | 1500 | 1500 |
| Professional Development | 500 | 500 | 500 |
| Sub Total | 10,000 | 11,500 | 11,500 |
| 4. Central Office | | | |
| Replace/Upgrade office computer systems | 0 | 1500 | 0 |
| Site licensed management software | 1800 | 1800 | 1800 |
| Upgrade printers | 0 | 500 | 400 |
| Professional Development | 400 | 500 | 500 |
| Sub Total | 2,200 | 4,300 | 2,700 |
| 5. District-wide Needs | | | |
| Supporting Instructional Literature | 1500 | 1500 | 1500 |
| Webmaster | 730 | 750 | 775 |
| Yearly meetings of Tech Committee | 100 | 100 | 100 |
| Technology coordinator | 22000 | 22700 | 23400 |
| Sub Total | 24,330 | 25,050 | 25,775 |
| | | | |
| Grand Total of Costs | 111,530 | 102,450 | 111,625 |
| | | | |
| Sources – Federal | | | |
| NCLB Act - Tittle IA | 500 | 500 | 500 |
| Local Entitlement | 7000 | 7000 | 7000 |
| Rural Education Achievement Program (REAP) | 19000 | 18000 | 17000 |

| | | | |
|-----------------------------|---------|---------|---------|
| Sources – State | | | |
| Laptop Initiative | 17000 | 17000 | 17000 |
| Maine Support Network | 1000 | 1000 | 1000 |
| Sources – Local | | | |
| Equipment (District-wide) | 47805 | 38725 | 47850 |
| Site Licensed Software | 17725 | 18725 | 19775 |
| Textbook Software | 1500 | 1500 | 1500 |
| | | | |
| Total Funding Source | 111,530 | 102,450 | 111,625 |

Dr. Fern Desjardins, Superintendent, MSAD #33

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This document was revised by the MSAD #33 Three-Year Technology Planning Committee and prepared by Tammy LeBlanc, Chairperson and principal at Wisdom Middle/High School, P.O. Box 69, St. Agatha, ME 04772, tamleblanc@msad33.net, 543-7717. The revision process began at the January 30, 2012 MSAD #33 Technology Committee Meeting.