

# Maine School Administrative District #11

## Technology Plan 2009-2011



# Maine School Administrative District #11

## Technology Plan 2009-2011

### Table of Contents

<b>Introduction.....</b>	<b>3</b>
<b>I. Community and Parental Involvement.....</b>	<b>4</b>
<b>II. Vision.....</b>	<b>6</b>
<b>III. Goals.....</b>	<b>7</b>
<b>IV. Necessary Technology.....</b>	<b>8</b>
<b>V. Collaboration with Adult Literacy Service Providers and Other Community Organizations.....</b>	<b>20</b>
<b>VI. Strategies for Improving Academic Achievement and Teacher Effectiveness.....</b>	<b>22</b>
<b>VII. Integration of Technology with Curricula, Instruction, and Assessment.....</b>	<b>23</b>
<b>VIII. Technology, Costs, Coordination, and Funding Sources.....</b>	<b>26</b>
<b>IX. Supporting Resources.....</b>	<b>40</b>
<b>X. Steps to Increase Accessibility.....</b>	<b>41</b>
<b>XI. Promotion of Various Curricula and Teaching Strategies that Integrate Technology.....</b>	<b>42</b>
<b>XII. Professional Development.....</b>	<b>43</b>
<b>XIII. Innovative Delivery Strategies.....</b>	<b>44</b>
<b>IXV. Accountability Measures.....</b>	<b>45</b>

# **Maine School Administrative District #11**

## **Technology Plan 2009-2011**

### **Introduction**

Users in our learning community must effectively use technology resources to access, retrieve, use, analyze, and share information in order to be successful anywhere as:

- Clear and effective communicators
- Self-directed and lifelong learners
- Creative and practical problem solvers
- Responsible and involved citizens
- Collaborative and quality workers
- Integrative and informed thinkers

Teaching and learning are enhanced through the use of technology. It is our belief that learners who use technology create knowledge, which allows them to reach personal and educational goals in the global community. MSAD#11 is committed to providing the necessary infrastructure and support crucial to promote and increase this learning.

The following technology plan was crafted using MSAD#11's educational outcomes and expectations. This helps to ensure equitable access to the most appropriate educational technology at each level. Spelled out in the plan are clear goals for use, outcomes for students, and a plan for the future.

# Maine School Administrative District #11

## Technology Plan 2009-2011

### I. Community and Parental Involvement

The MSAD#11 Technology Committee includes a wide range of representation from the school community. The committee's purpose is to promote community and parental educational involvement by using technology to develop and promote support among all stakeholders.

#### Committee Members

Paul Knowles	Superintendent	Becky Ranks	Community Member
Howie Tuttle	Director of Curriculum & Instruction	Michael Johnson	Technology Technician
Peg Long	Director of Special Services	Debbie Veins	Teacher
Lisa Foster	Integration Specialist	Debbie Cloutier	Teacher
James Risch	Technology Technician	Marie Tarrio	Teacher
Karen Moody	Principal	Sue Williamson	Math Specialist
Chad Kempton	Principal	Katie Smith	Teacher
RayeAnn Desoto	Gifted & Talented	Barbara Packales	Teacher
Dotty Hinckley	Secretary	Doug Driscoll	Teacher
Kristy Ferran	Teacher	Jolaine Galibois-Barss	Teacher
Kelly Chamberlain	Teacher	Haley Rowe	Teacher
Lynn Doloff	Community Member	Vicki Kelley	Community Member

# Maine School Administrative District #11

## Technology Plan 2009-2011

Strategies to increase involvement and communication with parents and community members:

### Community

- Post up-to-date information on the District Web Site relative to technology. This includes training materials, surveys, updates, and FAQs.
- District intranet connecting schools (wide area network).
- Technology presentations at School Board and public meetings.
- Technology related courses, workshops, and/or classes, offered by Adult Education. This includes use of the Distance Learning (ATM) program.
- Adult education department provides community members with computer lab access and Internet access on a case-by-case basis.
- The software PLATO is available for use as to meet the needs of learners of all ages. This software supports instruction as well as learning.
- Learning showcase for technology enhanced projects at curriculum fair nights and parent teacher conferences.
- Community members with technology expertise share experience and knowledge via field trips, guest speakers, and/or online collaboration with students.
- Technology budget voted on at yearly public budget meetings.
- District newsletters, published at least 3 times per year.

### Parents

- The District website will have updated parent information, including links, newsletters, and course information.
- Technology enhanced student and staff projects displayed at school and district activities.
- Online parent access to student information (grades, attendance, and assignments).
- Access to curriculum and local assessment information via the District website.
- eMail communication between parents and staff regarding student learning.
- Meetings for students, parents, and guardians for those who choose to participate in the MLTI laptop take home option.
- Understanding and adherence to the District acceptable use policy by all users.
- Parent surveys in regards to the impact of technology and the educational system.

# Maine School Administrative District #11

## Technology Plan 2009-2011

### II. Vision

#### MSAD#11 District Philosophy

MSAD#11, a partnership of student, teachers, parents, and community, encourages growth toward each student's fullest potential and realization of their responsibilities as citizens. Therefore, the curriculum will be flexible and relevant to the changing world. Schools will be community centers, which provide quality education to lifelong learners in a positive nurturing environment.

Recognizing that we live in a global, rapidly changing society, M.S.A.D.#11 is committed to providing a quality education to learners' in grades pre-kindergarten to adult.

#### MSAD#11 Technology Vision

Teaching and learning are enhanced through the use of technology. It is our belief that learners who use technology create knowledge, which allows them to reach personal and educational goals in the global community.

#### MSAD#11 Technology Mission

MSAD#11 will:

- Provide the infrastructure and support crucial to promote and increase learning.
- When appropriate, use technology to achieve standards in curriculum areas.
- Expand course offerings through the use of technology.
- Provide adequate staff training necessary to enhance learning through the use of technology.
- Provide, support, and maintain necessary technology in all services. Routine tasks will be performed through the most efficient solutions.
- Continuously investigate, explore, and evaluate emerging technologies.

# Maine School Administrative District #11

## Technology Plan 2009-2011

### III. Goals

K-12 technology standards are integrated into all instructional areas. These include:

- Basic operations and concepts.
- Social, ethical, and human issues.
- Technology productivity tools.
- Technology communication tools.
- Technology research tools.
- Technology problem-solving and decision-making tools.

#### Major Goals:

1. All teachers will use technology to enhance teaching and learning.
2. All students will have access to the technological resources necessary to support learning; the application and demonstration of knowledge to perform successfully within the MSAD#11 local assessment system, as well as in the Maine Learning Results.
3. Technology use will be integrated in all curriculum areas to support student achievement of the MLR.
4. An ongoing, systemic, process of evaluation and accountability in regards to technology use will be developed and implemented (technology as a tool for teaching and learning, data management, and fiscal management tools).

The MSAD#11 plan of action regarding the goals stated above, along with a list of funding needs and sources can be found in Section 8 of this plan.

# Maine School Administrative District #11

## Technology Plan 2009-2011

### IV. Necessary Technology

Current and future needs are determined via inventory assessments, student technology skills checklists, student surveys, staff surveys, and by recommendations from the technology committee.

#### Current Hardware, Software, and Staff Assessment

##### A. Gardiner Area High School (GAHS) Grades 9-12, student population 750:

#### Hardware and Infrastructure:

##### Network

- The network has a GB fiber backbone with 100mb to each classroom.
- MSLN provides Internet Access through a T3 line.
- Servers include: FirstClass District email XServe, District PowerSchool XServe, District PowerSchool practice XServe, District Media Center XServe, Backup XServe, and GAHS StudyWiz XServe.
- Wiring closets are in the following locations: 1 T-Wing, 1 C-Wing, 1 media center, and 1 in the server room.
- A Cisco firewall is between the network and MSLN
- Apple Airports provide wireless connections throughout the building.

##### Computers

- Each teacher has a HS-MLTI laptop, which was issued in July of 2008.
- Students have access to 14 MLTI and 2 district owned wireless laptop labs (24 Apple iBook G4 laptops are in each cart). There are 2 PC labs (24 PCs in each lab- purchased in 2005), one iMac lab (24 iMacs purchased in 2007), 20 PCs (5 new computers per year, with the oldest rotated out) in the media center, and 20 eMacs/iMacs (5 new computers per year, with the oldest rotated out) in the video production studio.
- The journalism and yearbook classrooms have 4 eMacs each.
- The Adult Education PC lab has 12 computers that are available to students.

LCD projectors are in the following departments:

- Visual and Performing Arts (1)
- Modern and Classical Languages (1)
- Career Prep (3)
- English Language Arts (3)
- Math (1)
- Science and Technology (5)
- Special Education (4)
- Social Studies (2)
- Health and Physical Education (0)

# Maine School Administrative District #11

## Technology Plan 2009-2011

- Media Center (1)
- ATM studio (1)
- School wide (2)
- Adult Ed (2)

SmartBoards are in the following locations:

- 2 in Science
- 3 in Special Education
- 1 in English Language Arts

Overhead projectors (29), VCRs, and TVs are in each department in the high school.

Networked printers (14) are located on each floor in each wing for both staff and student use. There are 3 networked copiers for staff to use.

One fax machine is on a dedicated Centrex line and is located in the guidance department.

Each classroom and office has a telephone, which is powered by a Nortel BCM phone system with voicemail, 911, and call accounting (installed in 2007). The high school has 13 phone lines; two dedicated to elevators, two to adult ed, one to a fax, 7 to classrooms/offices, and 1 to the main office and nurse. The phone system serves as the master control for classroom and hallway speakers. Four new tone generators were installed for bells in 2007.

The office of the principal and head custodian have school issued cell phones.

Hallways, entryways, and the cafeteria are monitored via 16 closed circuit surveillance cameras.

### **Software:**

- Microsoft Office is the standard desktop publishing software for teachers and the PC computer labs. iWork is the standard desktop publishing software on the wireless labs.
- The student information system is PowerSchool Premier 5.1
- Advanced Data Systems (ADS) Profund Sequel is the accounting software.
- InfoCentre is the media center software.
- FirstClass 9.1 is the software for the email system.
- Instructional software: Choices, Plato, Photoshop/GIMP, Glencoe Accounting, Quickbooks, Logger Pro, Scholastic Reading Inventory, StudyWiz.

### **Staffing**

The GAHS technology staff includes 1 half time technology integration specialist and 1 part time eMints Regional mentor. There are 2 full time computer technicians that cover all of the district buildings (as needed).

# Maine School Administrative District #11

## Technology Plan 2009-2011

---

### **B. Gardiner Regional Middle School (GRMS) Grades 6-8, student population 500:**

GRMS participates in the Maine Department of Education Maine Learning Technology Initiative program, which provides Apple laptops to all teachers and students in grades 7 and 8.

#### **Hardware and Infrastructure:**

##### **Network**

- The network has a 100Mb backbone with 100MB to each classroom.
- MSLN provides Internet Access through two T1 lines.
- Servers include: 1 GRMS student and staff server, 1 district elementary student and staff server .
- Wiring closets are in the following locations: boiler room, first floor, 2<sup>nd</sup> floor computer lab.
- An Apple servers is used as a firewall is between the network and MSLN
- Apple Airports provide wireless connections throughout the building.

##### **Computers**

- Each teacher has a MLTI laptop, which was issued in July of 2007.
- Students in grades 7 and 8 have one-to one access to MLTI iBooks. Students in grade 6 use 2 district owned wireless laptop labs (24 Apple iBook G4 laptops in one cart, Apple MacBooks in the second cart). There is an older lab with 24 iMacs, as well as 7 eMacs in the media center for students to use.

Two LCD projectors are assigned to each grade level, while 4 more are available on a first come, first served basis.

Numerous overhead projectors, VCRs, and TVs can be checked out from the media center in the school.

SmartBoard are found in the following departments:

- Special education (1)
- School wide (1)

Networked printers (8) are located on each floor in each wing for both staff and student use. There are 2 networked copiers for staff to use.

One fax machine is on a dedicated Centrex line and is located in the office.

One telephone is provided for staff use in each “team” (a total of 9). The phone system is an older Sprint system, which does have voicemail. The middle school has 10 phone lines; two dedicated to elevators, one to a fax, 6 to classrooms/offices, and 1 to the main

# Maine School Administrative District #11

## Technology Plan 2009-2011

office and nurse. A Valcom system serves as the master control for classroom and hallway speakers and the bell system.

The office of the principal and head custodian have school issued cell phones.

### **Software:**

- Microsoft Office is the standard desktop publishing software for teachers. Appleworks and iWork is the standard desktop publishing software on the wireless labs and student computers.
- The student information system is PowerSchool Premier 5.1
- Advanced Data Systems (ADS) Profund Sequel is the accounting software.
- InfoCentre is the media center software.
- FirstClass 9.1 is the software for the email system.
- Instructional software: iWork, Appleworks, GIMP, Keynote, StudyWiz, Google Earth.

### **Staffing**

The GRMS technology staff includes 1 half time technology integration specialist and 1 part time eMints Regional mentor. There are 2 full time computer technicians that cover all of the district buildings (as needed).

---

## **C. Helen Thompson Elementary School (HTES) Grades K-5, student population 230**

### **Hardware and Infrastructure:**

#### **Network**

- The network has a 100Mb backbone with 100MB to each classroom.
- MSLN provides Internet Access through one T1 line.
- Wiring closets are in the following locations: boiler room, first floor, 2<sup>nd</sup> floor computer lab.
- Apple Airports provide wireless connections throughout the building.

#### **Computers**

- Each teacher has an older (first generation Apple G3 or second generation Apple G4) MLTI laptop.
- Students in grades 3-5 have one wireless laptop cart with 24 iBooks. Students in grades K-2 have access to one cart of older iBooks (rotated down from the upper grades). Each classroom has one eMac for students to use.

Two LCD projectors are assigned to the school.

#### **Smartboards**

- One SmartBoard is shared by students.

# Maine School Administrative District #11

## Technology Plan 2009-2011

Numerous overhead projectors, VCRs, and TVs can be checked out from the media center in the school.

Networked printers (1) is located on the main floor in the middle of the school for both staff and student use. There is 1 networked copier and one copier for staff to use.

One fax machine is on a dedicated Centrex line and is located in the office.

Each classroom and office has a telephone, powered by a Nortel PBX phone system with voicemail (installed in 2006). Helen Thompson Elementary School has 3 phone lines; two to classrooms/offices, and 1 reserved for the main office and nurse. The phone system serves as the master control for classroom and hallway speakers. One new tone generator was installed for bells in 2006.

The office of the principal and head custodian have school issued cell phones.

### **Software:**

- Appleworks and iWork is the standard desktop publishing software on the wireless labs, teacher, and student computers.
- The student information system is PowerSchool Premier 5.1
- Advanced Data Systems (ADS) Profund Sequel is the accounting software.
- InfoCentre is the media center software.
- FirstClass 9.1 is the software for the email system.
- Instructional software: iWork, Appleworks, GIMP, Math Investigations, Google Earth.

### **Staffing**

The technology staff includes 1 part time eMints Regional mentor (shared by the district). There are 2 full time computer technicians that cover all of the district buildings (as needed).

---

**D. Laura E. Richards Elementary School (LER), Grades PK-2 Student population 270**

### **Hardware and Infrastructure:**

#### **Network**

- The network has a GB backbone with 100MB to each classroom.
- MSLN provides Internet Access through one T1 line.
- Wiring closets are in the following locations: first floor media center closet, 2<sup>nd</sup> floor store room.
- Apple Airports provide wireless connections throughout the building.

#### **Computers**

# Maine School Administrative District #11

## Technology Plan 2009-2011

- Each teacher has an older (first generation Apple G3 or second generation Apple G4) MLTI laptop.
- Students upstairs have one wireless laptop cart with 24 iBooks. Students downstairs have access to one cart of older iBooks (rotated down from the upstairs). Each classroom has one eMac for students to use.

Two LCD projectors are assigned to the school.

### Smartboards

- Two SmartBoards are shared by students.

Numerous overhead projectors, VCRs, and TVs can be checked out from the media center in the school.

Networked printers (2) are located on the main floor in the media center and upstairs in the hallway for both staff and student use. There is 1 networked copier and one copier for staff to use.

One fax machine is on a dedicated Centrex line and is located in the office.

Each classroom and office has a telephone, powered by a Nortel PBX phone system with voicemail (installed in 2005). Laura E. Richards Elementary School has 3 phone lines; two to classrooms/offices, and 1 reserved for the main office and nurse. The phone system serves as the master control for classroom and hallway speakers. One new tone generator was installed for bells in 2005.

The office of the principal and head custodian have school issued cell phones.

### Software:

- Appleworks and iWork is the standard desktop publishing software on the wireless labs, teacher, and student computers.
- The student information system is PowerSchool Premier 5.1
- Advanced Data Systems (ADS) Profund Sequel is the accounting software.
- InfoCentre is the media center software.
- FirstClass 9.1 is the software for the email system.
- Instructional software: iWork, Appleworks, GIMP, Math Investigations, Google Earth.

### Staffing

The technology staff includes 1 part time eMints Regional mentor (shared by the district). There are 2 full time computer technicians that cover all of the district buildings (as needed).

---

# Maine School Administrative District #11

## Technology Plan 2009-2011

### E. Pittston Consolidated Elementary School (PIT), Grades K-5 Student population 170

#### Hardware and Infrastructure:

##### Network

- The network has a 100MB backbone with 100MB to each classroom.
- MSLN provides Internet Access through one T1 line.
- Wiring closets are in the following locations: boiler room, media center office, teachers copier room.
- Apple Airports provide wireless connections in the instructional areas of the building.

##### Computers

- Each teacher has an older (first generation Apple G3 or second generation Apple G4) MLTI laptop.
- Students in grades 3-5 have one wireless laptop cart with 24 MacBooks (purchased in 2007). Students in grades K-2 have access to one cart of G4 iBooks (rotated down from the upper grades). Each classroom has one eMac for students to use.

Two LCD projectors are assigned to the school.

##### Smartboards

- Two SmartBoards are shared by students.

Numerous overhead projectors, VCRs, and TVs can be checked out from the media center in the school.

Networked printers (1) is located on the media center for both staff and student use. There is 1 networked copier and one copier for staff to use.

One fax machine is on a dedicated Centrex line and is located in the office.

Each classroom and office has a telephone, powered by a Nortel PBX phone system with voicemail (installed in 2006). Pittston Consolidated Elementary School has 3 phone lines; two to classrooms/offices, and 1 reserved for the main office and nurse. The phone system serves as the master control for classroom and hallway speakers. One new tone generator was installed for bells in 2006.

The office of the principal and head custodian have school issued cell phones.

##### Software:

- Appleworks and iWork is the standard desktop publishing software on the wireless labs, teacher, and student computers.

# Maine School Administrative District #11

## Technology Plan 2009-2011

- The student information system is PowerSchool Premier 5.1
- Advanced Data Systems (ADS) Profund Sequel is the accounting software.
- InfoCentre is the media center software.
- FirstClass 9.1 is the software for the email system.
- Instructional software: iWork, Appleworks, GIMP, Math Investigations, Google Earth.

### Staffing

The technology staff includes 1 part time eMints Regional mentor (shared by the district). There are 2 full time computer technicians that cover all of the district buildings (as needed).

---

### F. Teresa C. Hamlin Elementary School (TCH), Grades K-5 Student population 113

#### Hardware and Infrastructure:

##### Network

- The network has a GB backbone with 100MB to each classroom.
- MSLN provides Internet Access through one T1 line.
- Wiring closets are in the following locations: boiler room, bottom floor store room, 2<sup>nd</sup> floor ceiling box.
- Cisco Arrownets provide wireless connections throughout the building.

##### Computers

- Each teacher has an older (first generation Apple G3 or second generation Apple G4) MLTI laptop.
- Students in grades 3-5 have one wireless laptop cart with 24 MacBooks (purchased in 2007). Students in grades K-2 have access to one cart of older G4 iBooks (rotated down from the upper grades). Each classroom has one eMac for students to use.

One LCD projector is assigned to the school.

##### Smartboards

- One SmartBoard is shared by students.

Numerous overhead projectors, VCRs, and TVs can be checked out from the media center in the school.

Networked printers (1) is located on the main floor in the Title One room for both staff and student use. There is 1 networked copier and one copier for staff to use.

One fax machine is on a dedicated Centrex line and is located in the office.

# Maine School Administrative District #11

## Technology Plan 2009-2011

Each classroom and office has a telephone, powered by a Nortel PBX phone system with voicemail (installed in 2004). Teresa C. Hamlin Elementary School has 3 phone lines; two to classrooms/offices, and 1 reserved for the main office and nurse. The phone system serves as the master control for classroom and hallway speakers. One new tone generator was installed for bells in 2004.

The office of the principal and head custodian have school issued cell phones.

### Software:

- Appleworks and iWork is the standard desktop publishing software on the wireless labs, teacher, and student computers.
- The student information system is PowerSchool Premier 5.1
- Advanced Data Systems (ADS) Profund Sequel is the accounting software.
- InfoCentre is the media center software.
- FirstClass 9.1 is the software for the email system.
- Instructional software: iWork, Appleworks, GIMP, Math Investigations, Google Earth.

### Staffing

The technology staff includes 1 part time eMints Regional mentor (shared by the district). There are 2 full time computer technicians that cover all of the district buildings (as needed).

---

### G. River View Community Elementary School (RIV), Grades 3-5 Student population 190

#### Hardware and Infrastructure:

##### Network

- The network has a GB backbone with 100MB to each classroom.
- MSLN provides Internet Access through one T1 line.
- Wiring closets are in the following locations: first floor kiln room closet, 2<sup>nd</sup> floor back store room.
- Apple Airports provide wireless connections throughout the building.

##### Computers

- Each teacher has an older (first generation Apple G3 or second generation Apple G4) MLTI laptop.
- Students upstairs have one wireless laptop cart with 24 iBooks. Students downstairs have access to one cart of older iBooks (rotated down from the upstairs). Each classroom has one eMac for students to use.

Two LCD projectors are assigned to the school.

# Maine School Administrative District #11

## Technology Plan 2009-2011

### Smartboards

- Two SmartBoards are shared by students.

Numerous overhead projectors, VCRs, and TVs can be checked out from the media center in the school.

Networked printers (2) are located on the main floor in the teachers room and upstairs in the media center for both staff and student use. There is 1 networked copier and one copier for staff to use.

One fax machine is on a dedicated Centrex line and is located in the office.

Each classroom and office has a telephone, powered by a Nortel PBX phone system with voicemail (installed in 2004). River View Community Elementary School has 3 phone lines; two to classrooms/offices, and 1 reserved for the main office and nurse. The phone system serves as the master control for classroom and hallway speakers. One new tone generator was installed for bells in 2004.

The office of the principal and head custodian have school issued cell phones.

### Software:

- Appleworks and iWork is the standard desktop publishing software on the wireless labs, teacher, and student computers.
- The student information system is PowerSchool Premier 5.1
- Advanced Data Systems (ADS) Profund Sequel is the accounting software.
- InfoCentre is the media center software.
- FirstClass 9.1 is the software for the email system.
- Instructional software: iWork, Appleworks, GIMP, Math Investigations, Google Earth.

### Staffing

The technology staff includes 1 part time eMints Regional mentor (shared by the district). There are 2 full time computer technicians that cover all of the district buildings (as needed).

---

**H. Central Office** houses the District level support staff. Included are the business manager, payroll, accounts receivable, receptionist, administrative assistant to the superintendent, food services, special services, plant operations, and technology department.

### Hardware and Infrastructure:

#### Network

- The network has a 100MB backbone with 100MB to each office.

# Maine School Administrative District #11

## Technology Plan 2009-2011

- Roadrunner provides Internet Access through one cable modem.
- Wiring closets are in the following locations: second floor copy machine room.
- Apple Airports provide wireless connections throughout the building.

### Computers

- Administration and assistants in the business offices have PC laptops or desktops. Administrators in other programs have Apple laptops or desktops.
- One LCD projector is assigned to the building.

An overhead projector, VCRs, and TVs can be reserved on a first come, first served basis.

Networked printers (2) are located upstairs in the business office and in the front office area. Downstairs, one networked printer is shared in the special services department. There are 3 networked copiers (one upstairs with fax capabilities) for staff to use.

One fax machine is on a dedicated Centrex line and is located in the special services office.

Each office has a telephone, powered by a Nortel PBX phone system with voicemail (installed in 2003). The central office has 5 phone lines, while special services has three dedicated lines.

The superintendent, director of curriculum and instruction, technology director, and plant operations manager have school issued cell phones.

### Software:

- Microsoft Office is the standard desktop publishing software on the office computers.
- The student information system is PowerSchool Premier 5.1
- Advanced Data Systems (ADS) Profund Sequel is the accounting software.
- InfoCentre is the media center software.
- FirstClass 9.1 is the software for the email system.

### Staffing

The technology staff includes 1 Director of Technology (shared by the district). There are 2 full time computer technicians that cover all of the district buildings (as needed).

---

**I. Bus Garage** houses the bus director and staff.

### Hardware and Infrastructure:

#### Network

# Maine School Administrative District #11

## Technology Plan 2009-2011

- The network has a 100MB backbone with 100MB to each office.
- Roadrunner provides Internet Access through one cable modem.
- Wiring closets are in the main floor.

### Computers

- The offices have PC desktops.
- The PCs that control the gas pumps (used by town and school) are maintained by the district technology staff.

### Software:

- Microsoft Office is the standard desktop publishing software on the office computers.
- The student information system is PowerSchool Premier 5.1
- Advanced Data Systems (ADS) Profund Sequel is the accounting software.
- TransFinder is the software used for managing the bus routes and schedules.
- FirstClass 9.1 is the software for the email system.

### Staffing

The technology staff includes 1 Director of Technology (shared by the district). There are 2 full time computer technicians that cover all of the district buildings (as needed).

### Future Needs Assessment – Hardware, Software, and Staff

We strive to meet the educational learning goals of our students by continuing to evaluate and purchase software, hardware requirements, and staffing needs as needs and technology tools change over time. Systemic, quality professional development opportunities need to be continued and increased to ensure technology integration and collaboration.

Cost saving alternatives continue to be explored. These will include (but not be limited to) open source applications, equipment donations, purchase of older MLTI laptops, and in-house repair. We strive to increase our student to computer ratio. The possibility of replacing Centrex phone lines with T1 lines, as well as converting the high school internet connection from the T3 ATM line to service through MSLN/Time Warner will be explored. Planning for fiber optic or wireless connections between buildings will begin.

# **Maine School Administrative District #11**

## **Technology Plan 2009-2011**

### **IV. Collaboration with Adult Literacy Service Providers and Other Community Organizations**

#### **Adult Education**

Equipment and facilities are shared by the Gardiner Area High School students and students in adult education classes. Community requests for new or repeated courses are promoted. Program offerings are detailed on our district/adult education website, in newsletters, and brochures. Offerings vary depending on needs, but include the use of PLATO software, courses offered via the ATM system, computer repair, Photoshop Elements, Microsoft Access, and Computers for the timid. Some of the courses offer high school diploma, GED credit, or college credit.

#### **Community Partnerships**

Experts in the community will continue to be encouraged and recruited to partner and collaborate with students during and after the school day.

#### **Communication With Community Stakeholders**

PowerSchool, a web based student information system, was implemented in 2004. In the second semester of 2006, PowerSchool Parent Access was opened to parents/guardians of high school and middle school students. By the second semester of 2008-2009, parents of students in grades k-5 are scheduled to have access to their child's information via PowerSchool Parent Access.

Pearson Inform (Inform) will be implemented in the fall of 2008. Inform will allow educators to communicate students' information, including comparison in regard to National, State and Local performance data.

StudyWiz is an online virtual learning environment that enhances learning by engaging students. Student access to StudyWiz began in December of 2007. Access to individual student information in StudyWiz for parents/guardians is scheduled to open by 2009-2010.

Web based subscriptions, including Marvel and InfoCentre's enhanced content, allow parent and student access to databases and information.

Our District website (<http://www.msad11.org>) is an excellent up to date portal of information. The following areas will be increased/improved:

Athletics at Gardiner Area High School update  
Classroom web pages created

# **Maine School Administrative District #11**

## **Technology Plan 2009-2011**

Gardiner Regional Middle School site update  
District calendar interface

Zoomerang, a survey tool, was implemented in 2006. Beginning in 2008-2009, district survey results will be made public and posted on our msad11.org website.

### **Use of School Facilities by the Community**

Technology resources are available for use through the adult education department at Gardiner Area High School.

# Maine School Administrative District #11

## Technology Plan 2009-2011

### VI. Strategies for Improving Academic Achievement and Teacher Effectiveness

The comprehensive technology plan in MSAD#11 is designed to support teacher effectiveness and to improve academic achievement. A variety of software is used to collect, manipulate, and analyze data, and informs stakeholders. Software is also used to help leaders make quality decisions in regard to instruction.

PowerSchool – our student information system.

Curriculum Mapper – warehouse of MSAD#11 curriculum and assessment information, tied to the Learning Results.

Scholastic Reading Inventory – provides student reading performance data

Lexia (reading intervention program) – leveled reading instruction for grade K-2

Pearson Inform – tool used for student/school data analysis

iSuccess - math intervention program

NWEA – student achievement test

MSAD#11 website – warehouse for curriculum and local assessment system

Case-e – special education information

InfoCentre – library electronic catalog for student, staff, and community

- Beginning in 2009-2010, the district will become School Interoperability Compliant (S.I.F.). All data collection software will be upgraded to be S.I.F. compliant.
- Students and staff will survey staff, students, and community members for feedback in regard to instructional practice and effectiveness, adequacy of the availability of hardware, software, and professional development opportunities.

# Maine School Administrative District #11

## Technology Plan 2009-2011

### VII. Integration of Technology with Curricula, Instruction, and Assessment

The technology integration focus is in the following areas:

#### 1. The use of technology tools to access, use, and synthesize information.

##### Current practice

- Online resources used for collaboration; including email and blogs.
- Resource sharing; teacher/student created web pages, wikis, portaportals, etc).
- Media used to demonstrate understanding; Inspiration concept maps, pages published on the web, spreadsheet analysis, database design, multimedia presentations, etc.
- Support staff to enhance process; teachers, integration staff, technology mentors.
- Policies regulating staff and student acceptable use of computers, networks, and equipment.
- Instruction on effective Internet research, databases, online resources.

##### Future Goals

- Increase opportunity for professional development in web development, multimedia presentation, and spreadsheet use.
- Increase database of interactive lessons using the SmartBoard.
- Increase the availability of student access to computers to enhance student learning opportunity.

#### 2. Curriculum specific use of technology tools.

##### Current practice

- Evaluation of software – level that student is assisted to meet standards with use of program. Effectiveness of software design.
- Specific software used to support K-12 curriculum areas is purchased and utilized.
- iWork and Microsoft Office are the two software suites that are used for teaching and learning.
- Integrated technology professional development opportunities are provided by local and outside experts. Workshop topics include Enhancing Literacy with Technology Tools, Using SmartBoard Essentials lessons to motivate and inspire students, online math manipulative increase understanding, digital storytelling, and basic skills.

##### Future Goals

- Increase access to hardware and software for teachers in grades K-6 to increase the use of technology as a classroom tool.
- Create and offer web based courses to high school students.
- Increase training in teaching online courses (grade 6-12 teachers).

# Maine School Administrative District #11

## Technology Plan 2009-2011

- Increase funding for necessary curriculum specific software, as well as teacher training to support use of software.
- Increase computer based subscriptions for instructional and research purpose.
- Complete student and teacher skill checklists.
- Develop a bank of integrated lessons that take into account technology skills and the Learning Results/curriculum expectations.

### 3. Technology that supports assessment for learning.

#### Current practice

- Local assessment data is available on the district website.
- Curriculums are available on the district website.
- Common assessments are available (password protected) on the district website.
- Assessment data is being used for instruction.
- Elementary DRA and writing prompt scores are being used for reading and math placement K-6.
- SAT and MEA scores are being used to analyze achievement trends.
- PowerSchool and PowerGrade are used to store student grades. This database also provides information regarding dropout rates, failure rates, honor roll, etc.

#### Future goals

- Students will begin to develop electronic portfolios.
- The district will purchase and implement NWEA, Northeast Education Association, software for reading and math assessment grades 5-10.
- The district will purchase and implement Pearson Inform software for student assessment data analysis.
- The district will implement Lexia software (for student in grades K-2) to enhance reading instruction.
- Common assessment data will be collected from Powerschool and will be used to analyze student performance.
- Student performance in regards to the Learning Results will be communicated, on the district website, to all stakeholders in the form of a district report card.
- Curriculum Mapper, an online warehouse of curriculum and assessment data, will be accessible to staff.

### 4. Technology to remediate learning

#### Current practice

- High school and adult learners are using PLATO software for remedial instruction and assessment for a variety of subjects.
- Students in grades K-6 use online virtual math manipulative to enhance understanding in numeracy.
- Reading A-Z subscriptions provide remedial help for students.
- Text to speech applications help students with computer based text.

# Maine School Administrative District #11

## Technology Plan 2009-2011

- Lexia and SRI software is used to provide students with skill level lessons and differentiated learning.

### Future goals

- PLATO software use will increase for students in need of RTI (response to intervention).
- Additional online subscriptions, downloads, and digital audio books will be available to staff and students.
- Online modules will be developed for students in need of RTI.
- Increase investigation of additional remedial possibilities in all instructional areas.
- Investigate use of technologies to assist with literacy and numeracy efforts.

# Maine School Administrative District #11

## Technology Plan 2009-2011

### VIII. Technology, Costs, Coordination, and Funding Sources

**GOAL 1**

<b>All teachers will use technology to enhance teaching and learning.</b>					
<b>Objective</b>	<b>Activity</b>	<b>Responsibility</b>	<b>Cost/ Resources</b>	<b>Funding Source</b>	<b>Timeline</b>
Staff will be trained to use technology tools when developing technology enhanced lessons, aligned with the local curriculum and MLR.	Create online portals in which learning resources are organized and can be easily accessed.	Technology committee, technology director, curriculum director, integration specialists, literacy and math specialists, principals, webmasters	Server \$6398.00	Local budget	2010-2011
	Integration training will be provided to all teachers on the use of technology in the classroom. This training will be ongoing. Opportunities will include tech camps, district workshops, online training, and coursework.	Administrators, technology director, integration specialists, eMints trainers, webmasters.	Supplies \$5000	Local, State, Federal, & Grant funds	2009-2011
	Staff members will develop a bank of effective uses - lessons of technology.	Classroom teachers, technology director, integration specialists, eMints trainers, webmasters.	Templates, space on server, training \$5000	Local, State, Federal, & Grant funds	2009-2011

# Maine School Administrative District #11

## Technology Plan 2009-2011

	Professional leaning communities will develop technology enhanced lessons, units, and assessments for teachers.	Administrators	Paid work time and workshop days. \$20,000	Local, State, Federal, & Grant funds	2009-2011
	Professional development (conferences, workshops, and other training - development opportunities) will be provided to support growth in technology integration.	Administrators	Substitutes, conference registration fees, transportation, food, lodging. \$20,000	Local, State, Federal, & Grant funds	2009-2011
	Offer summer tech camp to staff.	tech team and selected presenters	Paid labor \$2000 Equipment \$3000	Local, State, Federal, & Grant funds	2009-2011
Staff technology skills will be assessed in the following areas: curriculum, assessment, instruction, communication, information, and productivity.	Training needs will be determined by staff surveys.	Administrators, teachers, integration staff, and support staff.	Paid labor \$500	Local, Federal	2009

# Maine School Administrative District #11

## Technology Plan 2009-2011

	Staff will be evaluated in part based on a technology integration competency component.	Administrators	Paid labor \$500	Local, Federal	2010
	Staff will have at least one written technology goal.	Administrators	None	Local	2010

# Maine School Administrative District #11

## Technology Plan 2009-2011

### GOAL 2

**All students will have access to the technological resources necessary to support learning; the application and demonstration of knowledge to perform successfully within the MSAD#11 local assessment system, as well as in the Maine Learning Results.**

Objective	Activity	Responsibility	Cost/ Resources	Funding Source	Timeline
Track technology use by teaching staff in district.	Develop systemic steps that provide feedback for student and staff technology use.	Teachers and tech team	Paid labor \$1,000	Local	2009
Expand and maintain hardware and software to support a district wide network	Evaluate need for new equipment for infrastructure in the district. This will be done by reviewing/tracking: 1. Current inventories of hardware and staff. 2. Technology usage. 3. Upgrade and maintain networks and hardware for stability and performance.	Administrators, Technology Director, tech team	Paid labor \$10,000	Local	2009-2011

# Maine School Administrative District #11

## Technology Plan 2009-2011

Expand and maintain instructional software	Annually, upgrade instructional software based on learning goals in curriculum areas.	Tech Team, teachers	Paid time \$30,000	Local, State, Federal, and grant funding	2009-2011
	Open source and volume licenses will be evaluated and used when possible. Staff will have access to a list of available resources.	Tech team and teaching staff.	\$1,000	Local	2009-2011
	Needs for new software will be evaluated by 1. Developing a software review procedure. 2. Develop a standardized software review template. 3. Develop a list of software inventory.	Tech team, teachers	Paid labor \$1,000	Local	2009-2011
The district will evaluate availability of personnel to support and maintain district network hardware, and software.	Evaluate staffing needed to maintain growing technological needs of all schools and district.	Tech team	Paid labor \$1,000	Local	2009-2011
	Create a helpdesk, available electronically or face to face.	Tech team	Paid labor \$1,000	Local	2009

# Maine School Administrative District #11

## Technology Plan 2009-2011

	Re-establish a student tech team at the middle school	Administrators	None	Local	2010
Increase offering of courses over the ATM	Increase courses available for GAHS students to take over the ATM.	Administrators and guidance	Paid labor for staff, course materials \$10,000	Local, State, Federal, and grant funding	2009
	Increase adult education offerings	Adult Ed director	Paid labor	Local, State, Federal, and grant funding	2009-2011
	Open ATM for community meetings	Adult Ed director	Paid labor	Local, State, Federal, and grant funding	2009-2011
Review and align technology curriculum	New courses in the area of technology will be provided, as deemed necessary.	Administrators, guidance, and teachers.	Paid labor \$1,000	Local	2009-2011
Develop and utilize new methods of delivering curriculum content.	Provide access to high school courses (accredited) not offered at GAHS.	Administrators and guidance	Software, network materials, registrations, and materials. \$10,000	Local, State, Federal, and grant funding	2010
	Offer students web based courses.	Guidance and teaching staff.	\$2,000	Local	2009-2011
Increase availability of educational resources.	Post information online; curriculum, syllabi, etc.	Teachers and web masters	Paid labor \$1,000	Local	2009-2011
	Post curriculum updates online.	Director of curriculum and instruction.	Paid labor \$1,000	Local	2009-2011

# Maine School Administrative District #11

## Technology Plan 2009-2011

	Increase electronic communication between students, parents, and staff.	Administrators, guidance, and teachers.	Infrastructure upgrade and paid labor. \$5,000	Local	2009-2011
	Expand access to information and resources via the Internet. Provide community access to hardware, software, and networks.	Teachers and tech team	Infrastructure upgrade (including security), paid labor \$20,000)	Local	2009-2011
	Develop policies and procedures that enable use of personal equipment on district networks	Administrators and tech team	Paid labor \$500	Local	2009-2011

# Maine School Administrative District #11

## Technology Plan 2009-2011

### GOAL 3

**Technology use will be integrated in all curriculum areas to support student achievement of the MLR.**

<b>Objective</b>	<b>Activity</b>	<b>Responsibility</b>	<b>Cost/ Resource s</b>	<b>Funding Source</b>	<b>Timeline</b>
Quality teacher training opportunities will be provided on an ongoing basis to promote the integration of technology into the classroom.	FirstClass email accounts will be used to collaborate.	Tech team and teachers	Software licenses \$5,000	Local	2009-2011
	Use of eMail folders/conference, podcasts, chats, calendars, and webpages will be maximized.	All staff	Software materials and training	\$5,000	2009-2011
	eMints mentor, integration specialists, tech team, and technology director will work with teachers to promote enhanced student learning with technology.	Integration specialist, eMints mentor, tech team	Paid labor \$2,500	Local	2009-2011

# Maine School Administrative District #11

## Technology Plan 2009-2011

	Building technology mentors will collaborate with staff members to increase the use of technology to enhance student learning.	Building technology mentors	Paid labor \$2,500	Local	2009-2011
	Scheduled professional development time will be used for enhancing teacher skills to increase technology integration opportunities.	Administrators	Paid labor, workshop days, after school sessions, summer tech camp \$20,000	Local	2009-2011
Students will be provided with the necessary technology skills to enhance learning in all curriculum areas.	Opportunities will be created to increase student's technology proficiency skill levels.	Administrators, teachers	Teachers \$10,000	Local, State, Federal, and Grant funds	2009-2011
	Identified students will be provided with adaptive technology.	Special education staff	Special education staff and equipment \$100,000	Local, State, Federal, and Grant funds	2010

# Maine School Administrative District #11

## Technology Plan 2009-2011

	Students will gather information, synthesis, and present information via opportunities created to use technology effectively and to enhance learning.	Building technology mentors and staff	Materials and computers \$30,000	Local	2009-2011
Review curriculum and standards for integration of district technology standards	Technology objectives imbedded in all curriculum areas as reviewed/updated.	Administrators, teachers, technology department	Paid time \$10,000	Local	2009-2011
	Develop a technology integration guide and resources for all teachers.	Technology committee and technology department	Paid time \$2,000	Local	2009
	Student surveys will be given to gauge the level of success in regard to technology goals.	Technology committee	Paid time, software \$1,000	Local	2009-2011
	Develop student competency guidelines in grades 5, 8, 11	Administrators, teachers	Paid time \$5,000	Local	2009

# Maine School Administrative District #11

## Technology Plan 2009-2011

Staff will enhance student learning by providing high quality, technology rich, student centered learning experiences.	Teachers will collaborate and share teaching strategies with other staff and specialists.	Teachers	Paid time \$5,000	Local	2009-2011
	Staff members will attend workshops and conferences	Administrators and teachers	Registrations, hotel, transportation, food, subs \$20,000	Local	\$20,000
	A centralized database of resources, content, and grade specific information will be researched and organized. This database will include websites that teachers have found to be effective and useful.	Teachers, technology department, building mentors	Paid time, server space, software \$10,000	Local	2010
	Time to create technology enhanced units and assessments, centered on the learning results, will be utilized.	Administrators	Paid time \$10,000	Local	2009-2011
	Staff developed, technology rich and effective lessons, will be posted.	Teachers	Paid time \$0	Local	2009-2011

# Maine School Administrative District #11

## Technology Plan 2009-2011

	Media specialists will teach students to use technology in the research process.	Media specialists and media center aides	Hardware, software, training \$20,000	Local	2009-2011
--	--	--	---------------------------------------	-------	-----------

# Maine School Administrative District #11

## Technology Plan 2009-2011

### GOAL 4

**An ongoing, systemic, process of evaluation and accountability (using technology as an analysis and reporting tool) will be developed and implemented.**

<b>Objective</b>	<b>Activity</b>	<b>Responsibility</b>	<b>Cost/Resource</b>	<b>Funding Source</b>	<b>Timeline</b>
Secure and provide the technological tools, along with the training necessary, to assist in the collection and analysis of data.	Investigate and evaluate software to support student achievement data.	Stakeholders	Paid time \$1,000 Equipment and software \$26,000	Local, State, Federal, and Grant funds	2009
	The process of data collection and tools will be evaluated by staff.	Administrators	Paid time \$1,000	Local	2009-2011
	Assessment protocols will be reviewed on a yearly basis.	Staff	Paid time \$20,000	Local	2009-2011
Technology will be used to support the local assessment system.	Standards based reports will be developed and utilized.	Staff	Paid time \$20,000	Local	2009-2011
	The district will adopt a data management system (collect, store, analyze, and report performance).	Administrators, teachers, technology department	Hardware, software, training \$40,000	Local, State, Federal, and Grant funds	2009
	A SIF compliant system will connect all databases to increase efficiency and interoperability.	Technology department	Hardware and software \$70,000	Local, State, Federal, and Grant funds	2010

# Maine School Administrative District #11

## Technology Plan 2009-2011

	Stakeholders will utilize the student information systems to monitor achievement progress toward local assessment requirements and standards.	Administrators , technology department	Hardware, software, training \$30,000	Local, State, Federal, and Grant funds	2009-2011
Technology vision will be reviewed yearly	The district technology plan will be reviewed and updated.	Technology committee	\$0	None	2009-2011
	Staff needs will be evaluated to ensure goals are met.	Administrators , technology department	\$0	None	2009-2011
	Job descriptions will be reviewed and realigned as needed.	Administrators , technology department	\$0	None	2010
	Keep abreast of internal and external factors that impact needs in regard to technology and communication.	Technology department	\$500	Local	2009-2011
	Technology skill level expectations will be developed for all job descriptions at all levels.	Administrators and teachers	Paid time \$1,000	Local	2009-2011

# Maine School Administrative District #11

## Technology Plan 2009-2011

### IX. Supporting Resources

A district technology director who is in charge of a team of support and instructional staff supports technology. This technology team is responsible for database, equipment, and instruction management.

Inventories of all hardware, network equipment, and software are maintained and revised yearly. Resources are distributed based on the needs outlined in the technology plan. Community members share access to school resources via the Adult Education program, district and school web sites, student information (including demographics and grades), and through participation on the technology committee.

Use of technology is supported by assistance from the technology team, access to software and hardware, and access to quality instructional technology training. This plan (section IV) provides information regarding hardware, software, staff, and training opportunities available to support district and schools. Also, future initiatives and needs are outlined in this plan (section III). Collaboration is evident from logs from the email server, file server, and web servers (Pearson Inform, PowerSchool, StudyWiz, msad11.org, and file servers). The MSAD11 transportation department, buildings/grounds personnel use hardware loaded with routing software to facilitate services. Food service employees use hardware and point of sale software that allow staff and students to purchase breakfast, lunch, and snacks using a keypad.

The district relies heavily on the use of technology. The use of eMail facilitates parent, community, and staff communication. eMails allow interaction with others throughout our world. Teachers help students meet learning requirements through the use a wide variety of technological resources. These resources help teachers to investigate, create, and evaluate lesson plans, develop multi-media projects, enhance and assess student learning, and create web content. Administrative and support staff prepare budgets, maintain inventories, keep student information (such as attendance and grades), print report cards and student transcripts, develop bus routes, and record food service transactions. Staff, student, and community library patrons have access to expanded resources (network infrastructure, hardware, software, and training) to help meet the Maine Learning Results and district curriculum expectations.

# Maine School Administrative District #11

## Technology Plan 2009-2011

### X. Steps to Increase Accessibility

Innovative use of technology (such as Lego Robotics, SmartBoards/SmartBoard software, video resources, graphic organizers, virtual manipulative, probes etc.) to increase student learning are supported by MSAD11. Teachers and technology department staff collaborate to determine the most effective way to enhance teaching and learning. The district provides training, time, and assistance to those willing to apply for grants to promote accessibility. Technology staff research and share web sites that support instruction.

Students in seventh and eighth grade have increased access to work in a seamless technology world between school and home. These students have access round the clock, thanks to the MLTI Project. To increase access to students at the high school level, the district wrote a successful grant to purchase a server and software package (StudyWiz) that provides an anytime/anywhere, platform free, classroom to all users with Internet Access. The district plans to provide 15 mobile, wireless laptops with Internet access on a first come, first served basis. Expansion of the program will be evaluated by usage monitoring. The ATM room at the high school allows students, staff, and community members to deliver and receive courses not normally available on site. High school and adult education students can earn credits at Maine postsecondary institutions (Thomas, UMaine, UMaine Augusta, Colby, Kennebec Community College).

Continuing in 2009-2011, students in each elementary school and the 6<sup>th</sup> grade will have access to wireless mobile labs.

In 2009-2011, new multimedia capable, wireless mobile labs will be installed at the high school level. Older laptops (used by high school students in 2006-2008) will be moved to lower grade levels and to teachers at the K-6 level.

Access to the school student file server from home will be available in 2009. eMail between staff and students in grades 7-12 will be available via StudyWiz.

Improving access to technology will be a result of monitoring hardware use, lease purchasing hardware, use of remote access tools, and proper planning which reflects the determination of realistic life expectancy for new and used computers. Adequate repair staff will help to increase student and staff access to technology resources.

Assistive needs support is provided as needed. Recommendations for safe and ergonomically appropriate equipment are met, and special education students use adaptive hardware and software as needed. The district will continue to explore needs and solutions.

# **Maine School Administrative District #11**

## **Technology Plan 2009-2011**

### **XI. Promotion of Various Curricula and Teaching Strategies that Integrate Technology.**

\*Refer to sections regarding technology staff, technology professional development, and technology integration.

Technology in MSAD11 is expanding. Techniques and opportunities for integration are developed and reviewed by teachers and integration specialists at all grade levels. Technology skills checklists for students are being developed for the 2009 school year. District technology standards/skill checklists will be evaluated and reviewed on an ongoing basis and will be included in curriculum changes in all grade levels in all subjects. A district technology integration map/guide will be developed to assist teachers in curriculum areas. Students will be assessed to assure they are meeting technology skill expectations. Staff members will be given opportunities to share lessons and/or units that showcase successful technology integration.

# Maine School Administrative District #11

## Technology Plan 2009-2011

### **XII. Professional Development**

The technology department continues to provide many opportunities for professional development to ensure that staff is aware of new technologies and techniques. Staff will have access to outside workshops, conference, and University courses. Online coursework is available through a wide variety of educational institutions. Integration specialists and in-house experts will share and demonstrate successful techniques that enhance learning with technology.

Each year, funds are allocated to allow staff members' professional development to increase technology integration. Staff survey results, workshop evaluations, and student skill checklist results, determine course and workshop offerings offered in the district. Workshops/courses range from one hour to 45 hours and are facilitated by in-house or experts from afar. Graduate credits or recertification credits are awarded. Time for teacher training or collaboration relative to technology and/or integration is devoted during workshop days. A technology training session is offered for newly hired teaching staff during new staff orientation. Some grant funding is available for outside conferences/workshops for staff to attend advanced knowledge and techniques for integrating technology to enhance teaching and learning.

Our goal is to increase the number of teachers and staff using technology successfully through staff development. To move staff from the developing stage of technology use to transforming, additional support and training are necessary. Collaboration and leadership from teachers already succeeding will be important. Clear goals and expectations need to be developed, shared, and evaluated in regard to staff and teacher skills and use of technology.

Minimal staff technology competencies and yearly technology use goals that require staff to integrate technology are necessary. Continuing commitment from the district and community to maintain and upgrade resources, as technology and needs change, are vital.

\*See technology staff and integration goals for more info.

# **Maine School Administrative District #11**

## **Technology Plan 2009-2011**

### **XIII. Innovative Delivery Strategies**

Staff is encouraged to create programs of study that utilize innovative techniques to incorporate software and hardware technologies seamlessly into the curriculum areas. The district supports all manners of delivery, ranging from the Internet to the laptop.

In 2007-2008, the district chose to increase elective classes at the high school level. We were able to increase the number of specialized courses that are technology rich, such as Broadcast Journalism, Multimedia, Programming, and Web Design. Web based software (StudyWiz) and web based courses are becoming more common.

Digital LCD projectors are mounted in all labs at the high school level. In addition, classrooms all have the ability to use an LCD on a checkout basis.

eMail conferencing is used to provide course content, homework assignments, and transfer work electronically. The use of StudyWiz (provided by grant funding) allows online (web based) course content to be delivered. We are exploring the feasibility of support software, including United Streaming and Atomic Learning.

The district will explore, support, and encourage the use of innovative strategies for delivery that would not be available otherwise due to geographical restraints and the lack of available resources.

# **Maine School Administrative District #11**

## **Technology Plan 2009-2011**

### **XIV. Accountability Measures**

Technology use will be measured yearly, and recommendations for budget and professional development will be based on the results. The district technology plan is reviewed and revised as necessary yearly. Priorities have been set based on specific goals. Data will be collected and analyzed, on an ongoing basis, to measure the success of the effectiveness of technology efforts. Included in this effort are failure rates, MEA, SAT, dropout, graduation, and attendance rates.

Staff, student, and parent surveys will be collected each year. Survey results will help to determine technology goals in the future. Integration results will be collected, and staff and student technology proficiencies will be analyzed via surveys.

Section 3 of this technology plan specifies the measures used to evaluate which technology plan activities are effective in improving teaching and learning, in regard to the local curriculum expectations and MLR.