

**SCHOOL UNION 103**  
**MOOSABEC CSD 917**



**2008-2011**  
**DISTRICT TECHNOLOGY PLAN**

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# 2008-2011 TECHNOLOGY PLAN FOR SCHOOL UNION #103/MOOSABEC CSD #917

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## 1. COMMUNITY AND PARENTAL INVOLVEMENT

### Technology Committee:

Name	Position	Current Role
Colleen Haskell	Superintendent	Administration
Harry Fish, Jr.	School Board	Represents Public Library
Michael Kelley	Principal JBHS	Represents JBHS
Robert Alley	Teacher Leader JES	Represents JES
Christopher Crowley	Teacher Leader BES	Represents BES
Eugene Blake	Technology Coordinator	Represents technology K-12
Allison Willard	Technology Integrator	Represents technology JBHS
Jenny Fagonde	Teacher	Represents Grades K-12
Theresa Fagonde	Citizen	Community Advisor
Roy Fagonde	Businessman	Community Advisor
Sherry Fish	Citizen/Businesswoman	Community Advisor

This committee has been established to oversee technology education for our community. Our intention is to meet on a regular basis, discuss concerns, evaluate and assess progress, and set or revise goals as we see the need. The committee is responsible for informing the school committee, the schools, and the community of technology concerns and improvements. Our meetings focus around three general questions:

1. Where are we now?
2. Where do we want to be?
3. How do we get there?

All of the stakeholders in the school district, regardless of gender, social status, ethnic background or learning exceptionality have access to the technology acquired

by our schools. Parents and community members are welcomed at all buildings if they have need for the use of school technology; however, Jonesport Beals High School has the highest ratio of easily accessible computers. Members of the community can arrange to use a computer on school days using forms available at the Jonesport-Beals High School.

System-wide meetings will involve discussions and decisions that help coordinate curriculum with technology. Parent night opportunities offer a chance for parents to check out the technology available to the students.

Website usage statistics are provided by the Maine School and Library Network (MSLN). Website usage is also determined by e-mails to the technology coordinator, teachers, and support staff from citizens of the town and the members of the public. This information helps determine if the structure of our website is effective and will be proof that the website is being used by stakeholders.

## **2. VISION FOR TECHNOLOGY**

We recognize the importance that technology will play in the future for the citizens of School Union #103/Moosabec CSD #917. Therefore, our vision is to establish a K-Adult curriculum, which will provide all community members with an opportunity to learn how to use technology in their everyday lives.

Furthermore, because technology is a key to current information for citizens in rural communities, our school system must accept the responsibility of teaching instructional practices to use with students, providing professional development strategies for educators, and offering instruction to community members in the use of all technology. Our efforts must be student-centered for individual achievement, accessible and equitable for all community members and reflective of Maine's *Learning Results* for school improvement. A sequential K-12 curriculum, in conjunction with staff development and an adult education component, will ensure our success.

A continual evaluation of school and community technology needs and a determination of the entry-level skills needed by business, industry, and post-secondary institutions will help an established committee set technology goals. Our comprehensive plan, which requires the purchase of quality hardware, software, connections and maintenance, and the provision of in-service opportunities for staff, as well as training for students and community members, will be revised as necessary.

### 3. GOALS

School Union #103/Moosabec CSD #917 have three main goals for their students.

- All software and hardware purchases maintained by a technology coordinator will help us move towards a student to computer ratio of 1:1. This, in turn, will help all students meet the Maine's *Learning Results* through: 1.) integration of technology into the classroom to aid in best practice instruction; and 2.) enhancement of curriculum.
- Stakeholders will benefit from instruction in the use of technology as a means to life long learning and as a tool for effective communication.
- Technology is a major factor in helping students become college ready. Our secondary students will have opportunities for on-line courses through other institutions, access to distance learning courses that may not be offered at their own schools as well as early college courses through the use of ATM and Polycom systems.

### 4. IDENTIFICATION OF NECESSARY TECHNOLOGY

Technology Currently in Use:

School Union 103

- Total of 72 Windows based computers running on Novell network
- Total of 33 Macintosh notebooks for use in the 5/6 grades
- 15 HP LaserJet printers connected to the network
- 35 Color DeskJet printers in individual classrooms
- 2 Poly Com systems
- 4 FAX/Scanner/Copiers
- 2 Digital Cameras
- 1 Cisco Router
- 1 Hub
- 6 NEC projectors mounted on portable carts
- 5 portable Smart Boards
- 1 Mounted Smart Board in computer lab with projector and dedicated computer
- One school has a 20 Desktop Windows based computer lab
- 9 Switches
- 2 Dell File Servers running Novell 6.5 and Zenworks
- 1 Mobil computer cart w/15 Dell notebooks and LJ printer
- 1 Mobil computer cart w/10 Macintosh notebooks and LJ printer
- 1 Mobil computer cart w/23 Macintosh notebooks
- 1 Mobil computer cart w/28 MLTI Macintosh notebooks

- 2 Mobil computer carts w/40 MLTI Macintosh notebooks
- All students and teachers are assigned an MLTI notebook
- Window Office 2003 is installed on most computers
- FasttMath is available throughout the district
- All PC's run Windows XP Pro software
- The students have access to multiple software titles which reside on the Novell servers
- Each classroom is equipped with at least one PC and printer

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- Total of 82 Windows based computers running on Novell network
- Teachers are assigned an MLTI Macbook
- 1 Mobil computer cart with 11 Windows based notebooks, w/printer
- 1 Mobil computer cart with 16 Windows based notebooks, w/printer
- 1 Mobil computer cart with 10 Windows based notebooks, w/printer and FasttMath software
- 6 LaserJet printers connected to network
- 2 Color LaserJet printers
- 11 Color DeskJet printers
- 2 Portable Smart Boards
- 1 Mounted Smart Board in Art Room
- 4 Portable projectors
- 1 Portable DVD Recorder
- 2 Wacom Tablets
- 1 Poly Com System
- 1 LaserJet FAX
- 2 Flatbed Scanners
- 2 Digital Camera, 1 Digital Camcorder
- 5 Wireless Access Points
- 6 Switches
- 1 External 320 GB Storage Unit
- 18 Windows PC equipped computer lab w/printer
- Technology lab in place for all student and teacher use
- ATM Room
- HP file server running Novell 6.5, Zenworks, BackupExec
- All computers run Windows XP Pro and Office 2003

#### **5. COLLABORATION WITH ADULT LITERACY SERVICE PROVIDERS**

Many members of the community have obtained computers now and are connected to high speed Internet. Their skills are improving and strengthening as technology expands into the future. Technology access at our town library and self-help software programs have cut the need for us to offer basic computer skills. We continue to try to offer an adult education course; however, we do not get enough people signed up

to make it possible. Computers being phased out of service throughout our districts are also available to the public as we adhere to our school policy.

## **6. STRATEGIES FOR IMPROVING ACADEMIC AND TEACHER EFFECTIVENESS**

In addition to the financial resources provided through local budgets, we have relied on the Title VI Grant. However, in the past Jonesport Beals High School has been awarded a MLTI/eMints Teacher-Leader grant for the training and development of teachers committed to fully integrating technology in teaching and learning. The model supports educators in integrating technology and best teaching practices to create a learning community where teachers and students explore and create knowledge together using a variety of resources. The Teacher-Leader will share her continued training and knowledge with her colleagues at Jonesport Beals High School and other teachers in the school system.

These teachers will be able to facilitate student learning through the use of essential questions that stimulate thinking, build curiosity, create connections, and generate long lasting knowledge through issues that matter to students.

The NCLB Consolidated Grant funds and other local funds are available. Hopefully, E-rate will be used to partially fund distance learning initiatives and telephone services in all three schools.

## **7. INTEGRATION OF TECHNOLOGY WITH CURRICULA, INSTRUCTION, AND ASSESSMENT**

As we continue to improve and revise our curriculum alignment with Maine's Learning Results System, student achievement data is reviewed. This data analysis is used as a guide when teachers and administrators meet to discuss the progress of our schools and the revision of curriculum.

The schools have operating computer systems with classroom connections, opportunities for lab situations and mobile laptop labs. The high school has an ATM distance learning system in operation. Jonesport Elementary has an ISDN line installed with voice video transmission capabilities. Beals Elementary School has a T-1 line with voice video transmission capabilities. Our course offerings for teachers, students, and community members will be unlimited. We realize the continued potential that technology can provide for rurally isolated areas such as ours.

Students enroll in classes over the Internet. In addition, the ATM and Polycom are used as well for professional development. AP courses or remedial course opportunities are offered through the ATM and/or Polycom.

As we move closer to a 1:1 student to computer ratio, instruction through technology will enhance curriculum development and assessment. Continued professional

development will help teachers to utilize technology in their classrooms and ease the current demands being placed on them. Teachers will make connections to web site resources for instructional enhancement, and will network with other professionals in various content areas. As our NCLB Design Team, Technology Team, and teachers review student achievement, we will continue to make recommendations to our administrators concerning professional development needs. Many teachers, students, and community members have purchased their own computers, resulting in an increase in the ease with which the computer becomes part of daily life and daily instruction.

**8. TECHNOLOGY TYPE, COST, AND FUNDING SOURCE**

<b>GOAL #1</b>	<b>ACTIVITIES</b>	<b>HARDWARE/ SOFTWARE</b>	<b>COSTS/FUNDING SOURCE</b>
To purchase the necessary hardware, software, and services (technology coordinator) to integrate technology with the learning results standards.	Continue to purchase hardware that improves our system. Continue to purchase software and supplies to keep our system operational and to allow a coordination of operating systems. Continue to purchase hardware, software and supplies, which will enhance the curriculum offerings and aid teachers in best practice instruction.	Purchase hardware, which includes laptops for all students in grades 5-12, that improves our system and the software/supplies to keep our system operational and coordinated.	Hardware: BES \$3250 JES \$4500 CSD \$3500 Total \$11,250 (local budget) Software/supplies: BES \$1500 JES \$4000 CSD \$1960 Total \$7460 (local budget) (REAP) BES \$9621.00 JES \$871.00 JBHS \$12148.00
<b>GOAL #2</b>	<b>ACTIVITIES</b>	<b>HARDWARE/ SOFTWARE</b>	<b>COSTS/FUNDING SOURCE</b>
To provide a tool for communication through the effective use of technology.	Train students, teachers, and community members in the use of computer based research and word processing. Continue to train secretarial staff in website management. Update and maintain the school website.	Update and maintain software and computers.  Upgrade Novell Servers to Windows Servers  Upgrade Student Record Database Software	\$26,020.00 (local and federal funding)  Utilize Local and Federal funding.  Utilize Local and Federal funding.

<b>GOAL # 3</b>	<b>ACTIVITIES</b>	<b>HARDWARE/ SOFTWARE</b>	<b>COSTS/FUNDING SOURCE</b>
To provide distance-learning equipment for students, staff, and community members that would not otherwise be available to them.	Continue to schedule use of ATM system and Polycom and train users.	Maintain ISDN line for Polycom and T-1 lines.	e-rate local cost of \$2000.00 per system

### **9. SUPPORTING RESOURCES**

Without the support of a technology coordinator to keep the equipment updated and running properly, technology use would become archaic and useless. As the needs of our students and staff evolve, curriculum software is purchased to enhance instruction and intervention strategies. Currently we have incorporated two new research based software programs (one for reading and one for math) for intervention purposes with students who need more support. Microsoft software and safety software is constantly being updated. Our school system also relies on the State assistance provided when submitting electronically generated paperwork to the State.

Technology has made the process easier when accessing the Department of Maine's resources and quicker and more efficient when e-mailing. Word processing capabilities make paperwork more efficient and better quality. The high school uses a computerized grading program. All three schools use a computerized attendance program. The secretaries use the Infinite Campus/MEDMS program for state reporting.

### **10. STEPS TO INCREASE ACCESSIBILITY**

Our three schools are in a high poverty area and have been eligible for federal funding for many years. With these funds, the school system has provided professional help for its teachers in their content areas as well as in curriculum development and revision. Workshops have provided training in a new computer program that will help us maintain the total K-12 written curriculum. Our local technology plan continues to reflect the state's plan for technology. An increased usage of the computer as a student progresses through the K-12 curriculum is provided for in the revised technology curriculum. The goal of 1:1 student to computer ratio is continually being pursued. All staff members including secretaries, educational technicians, teachers, principals, and the superintendent are working together in an effort to upgrade their computer skills. As our curriculum is revised and used, and as we develop/revise our system of assessment, technology will be integrated into local consolidated plans to implement the *Learning Results*.

Reaped NCLB Title V funding will support the continuation of a Technology Coordinator. Grant funds have been and will be utilized to provide Teacher Leaders/Technology Integrators when available. These people will provide training for teachers in the best practice of and integration of computers into the classroom.

A teacher at the high school has been trained to monitor distance education offerings and teach a distance education course which is offered to other students in other schools.

## **11. PROMOTION OF VARIOUS CURRICULA AND TEACHING STRATEGIES THAT INTEGRATE TECHNOLOGY**

Our school system will add programming to our curriculum as we find a need and will supply the necessary tools to help remedy an academic problem. We have begun to use *FASTT Math*, a research based computer program, for students who are having trouble learning their math facts. As we did our data analysis of our curriculum alignment and the alignment with the State's Balance of Representation of Content Standard Indicators, gaps in the science curriculum became very apparent at the elementary school level. Technology using Web Quests and online resources is an avenue for supplementing science programs missing instructional materials.

In addition, both elementary schools are encouraging their students to use *Type To Learn*, a program to improve their typing skills. Research projects with Internet resources as references and required type written papers are becoming more prevalent at the high school level.

Analysis of high school curriculum alignment with the Maine *Learning Results* brought about new class requirements for graduation. Technology plays a major role in the preservation and presentation of the project. Also, various computer software programs are being offered at the high school to allow students the advantage of hands on application. These programs will allow some students to have a computer component in job application resumes if choosing to go into the work force after high school.

## **12. PROFESSIONAL DEVELOPMENT**

Professional development will be provided on a group or individual basis. Through activities planned for both staff and parents the school system will provide the necessary training to meet the needs of the stakeholders, provide distance learning opportunities and provide for the integration and use of technology in the classroom.

Students can learn on their own, but for learning to have meaning and connection to the outcomes of the Maine *Learning Results*, they need guidance. Technology is an integral part of meeting the Content Standards and if our students are to meet these Standards, then they need their instructors to be trained in the use of and importance

of technology.

We hope to provide our staff with continuous training and development of computer skills; training on how to effectively research educational topics and develop online classroom resources; and ongoing support for SmartBoard, ATM, and Polycom use.

Continued professional development will help teachers to utilize technology in their classrooms and ease the current demands being placed on them. Teachers have found educational programs to aid in instructional strategies and made networking connections with other professionals in their content areas. As our NCLB Design Team, Technology Team, and teachers review student achievement, we will continue to make recommendations to our administrators concerning professional development needs.

### **13. INNOVATIVE DELIVERY STRATEGIES**

The school system offers several avenues for long-distance learning and innovative strategies and specialized courses. Through this partnership grant, course offerings can be exchanged among the five high schools. Online courses and ATM classes can be arranged when schedules are convenient. Technology is a necessary part of this type of educational opportunity. The high school also has networked with the University of Maine in Augusta and participates in virtual high school.

Schools receive distance education services and training which is coordinated by the Washington County Consortium for school improvement.

One high school current events class is offered to seniors over the Internet utilizing Moodle. Students read and react to the teachers prepared materials. A class offering of this type allows students to be ready for college classes that are offered through technology.

### **14. ACCOUNTABILITY MEASURES**

There are several measures that will be used to evaluate the effectiveness of integrating technology into the curriculum and instruction. MEA scores will be one factor. The scores on the grade level 3-8 MEA's will indicate whether students are meeting grade level expectations. An end of the year survey will be used to indicate the use of technology in the classroom and its impact. These two factors can show a correlation between use of technology and student achievement.