

# UNION 37

Technology Plan  
July 1, 2007 –  
June 30, 2010

Technology Committee  
JULY 2007

Technology Committee UNION 37 2007 – 2010

Philip Richardson, Superintendent

## **1. Community and Parental Involvement.**

We evaluated our previous goals and discussed our technology needs going forward.

Over the years the School has been sensitive to the community and provided access for computer technology through adult education and volunteerism. It is the intent of the district to seek out and involve the community's input into the technology planning

The Technology Committee meets monthly to manage the technology needs of the district and it is the goal of this committee to discuss, implement and adopt and update the technology plan during the School year.

Parents and other community members will continue to be involved in the planning for technology. Parents will be informed of proper use of technology through the school Web pages and student handbooks.

## **2. Vision.**

Working together, with the town of Rangeley and surrounding plantations, which make up Union 37, we will maintain the technology-rich learning environment. We will integrate technology into the curriculum, which meets the school's standards. This will enable students, staff and community members to be computer literate, effective communicators and life-longer learners.

### 3. Goals.

#### A. *Student Learning:*

1. Students will be using web pages created by the teachers and the librarian and all acceptable Internet Resources.
2. Students will be using latest technologies (digital/video, still cameras, scanners, multimedia projectors, etc.) to create and present individual projects.
3. Students can communicate with students and teachers in the district and world through various electronic media such as email, blogs and instant messaging.
4. Students will be given opportunities to improve their computer skills through increased integration of technology in the curriculum and access to a computer lab (wireless and wired), and teacher available technologies in the classroom.
5. Students will be given expanded opportunities to participate in computer clubs and independent studies. The curriculum program will offer a sequence of skills for grades K-12.

#### B. *Professional Development:*

1. Staff will be supported in their efforts to improve computer skills through professional development activities aimed at the integration of technology into the curriculum.
2. Knowledge and uses of technology will become a part of district criteria for hiring staff.
3. Course offerings through distance learning will be explored through universities and Adult Education such as ITV.

#### C. *Curriculum Instruction and Assessment:*

1. K-12 Technology Skills Benchmarks have been created. The curriculum needs to be further developed to reflect these and national standards.
2. Technology will be utilized for tracking assessment data.
3. Student access to computers at the High School level will be increased through portable computer labs and laptops.
4. Expand Middle School curriculum and program offerings in computer technology to maximize usage of the MLTI laptops.
5. Investigate expanding keyboarding opportunities.

#### D. *Community Climate Supporting Technology Change:*

1. School information will be accessible through a information rich Website.
2. Community participation will be encouraged.
3. Assignments and Grade Reports will be issued weekly on the WEB

#### **4. Identify Necessary Technology.**

##### **A. Current Technology Assessment**

The School has:

- connection with two T1 lines
- network through Windows 2003 Enterprise servers
- Internet connections in all classrooms and the library
- E-mail accounts are available to staff and all grades
- Internet access and is filtered through MSLN and local Firewall
- available digital cameras, scanners, CD/DVD-RW, multimedia projectors
- networkable Printers, Scanners and Copiers
- 50 High School laptops in two portable lab
- airport wireless Internet access throughout the School
- appropriate electrical wiring for charging and storage of laptops

##### **B. Technology Necessary to Reach Goals**

1. Plan for a K-2 technology rich environment
2. Continuous upgrading and replacement of old equipment
3. Maintain and support computer technology skills and integration
4. Expansion of the School WEB use

##### **C. E Rate Plan**

- Continue to use the program to maximize funding.

#### **5. Collaboration with Adult Program.**

The School will continue to support and explore additional distance learning experiences and offer classes for older learners.

#### **6. Strategies for Improving Academic Achievement and Teacher Effectiveness.**

Future funds will be used to purchase wireless laptops, portable computer labs and SMART Boards. This will increase student access to computers. Training for teachers on computer uses and the integration of technology into the curriculum is an on-going effort and use of these funds.

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

### **2007-2008**

- ❑ The technology committee will meet monthly and consistently work towards achieving the goals of this Plan.
- ❑ Continue to provide technical training and support to staff through in-service, early release days, and summer curriculum work.
- ❑ Implementation of K-12 technology curriculum and benchmarks.
- ❑ Seek additional funding opportunities beyond the E Rate program.
- ❑ Expand the user-friendly aspects of the district Website.
- ❑ Explore the development a Computer Club.
- ❑ Expand Distance Learning opportunities for students and staff
- ❑ Continue and Expand NWEA student assessment database
- ❑ Review implementation of this Plan and revise as needed.

### **2008-2009**

- ❑ Continue upgrading and replacement of out dated equipment
- ❑ Continue Distance Learning opportunities for students and staff
- ❑ Continue to provide technical training and support to district staff
- ❑ Implement Consolidation's Benchmarks for Technology into the curriculum and operation of the School.
- ❑ Expand wireless technology where appropriate.
- ❑ Expanded technology curriculum for High School students.
- ❑ Explore additional uses of the school networks
- ❑ Review implementation of this Plan and revise as needed.

### **2009-2010**

- ❑ Continue to provide technical training and support to district staff
- ❑ Continue upgrading and replacement of equipment
- ❑ Expand Distance Learning opportunities for students and staff
- ❑ Assess and adjust benchmarks for technology
- ❑ Review implementation and completeness of the School Website.
- ❑ Review implementation of this Plan and revise as needed.

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

<b>Goals</b>	<b>Activities</b>	<b>Hardware/ Software</b>	<b>Costs</b>	<b>Funding Source</b>
<b>a) Plan for technology rich environment in the School</b>	1. Create a committee to research technologies appropriate for the School.	Wireless Laptops	\$10,000	✓ Title Funds ✓ E-Rate ✓ District Budget ✓ Grant funds
<b>b) Continuous upgrading and replacement of obsolete equipment</b>	1. Annual review of School technology needs. 2. Purchase of equipment.	Computers, printers, licenses, etc. as needed.	\$20,000.00	✓ Title Funds ✓ E-Rate ✓ Grant funds ✓ District Budget
<b>c) Maintain and advance use of computer technology</b>	1. Annual Technology Review K-12. 2. Network Manager 3. Web Editor 4. In-house maintenance of equipment and Tech Support	Student Data S/W  Remote Administrative S/W  Remote Monitoring S/W	\$15,000.00  \$15,000.00  \$20,000.00  \$15,000.00	✓ Title Funds ✓ E-Rate ✓ Grant funds ✓ District Budget

<p><b>d) Expansion of technology to Increase Access</b></p>	<p>1. Portable, wireless computer labs 2. Purchase of DVD, digital video cameras 3. Explore digital satellite technology 4. Explore distance learning</p>	<p>25-75 laptops for High School  Hardware as determined.</p>	<p>\$50,000.00  \$5000.00  \$2000.00  \$2000.00</p>	<p>✓ District Budget ✓ Title Funds ✓ E-Rate ✓ Grant funds</p>
<p><b>e) Exploration of Website Development and uses</b></p>	<p>1. Pilot site and client technology S/W</p>	<p>Site development S/W</p>	<p>\$10000.00</p>	<p>✓ E-Rate ✓ District Budget ✓ Title Funds ✓ Grant funds</p>
<p><b>f) All Classrooms will access networkable color printer</b></p>	<p>1. Purchase network cards for all laser printers</p>	<p>Xerox/ Phaser Printers</p>	<p>\$5000.00</p>	<p>✓ District Budget ✓ Title Funds ✓ E-Rate ✓ Grant funds</p>

**9. Supporting Resources**

- Technology Committee
- Contract Technical support
- Technology Integration Specialist
- Website Developer/Web Editor
- Tech support for the following software programs:
  - ADMIN +
  - Gradequick
  - NWEA
  - Others as needed
- Network Consultant
- Bess Filtering Software/Maine School Library Network
- Database assessment program licenses as needed

**10. Steps to Increase Accessibility**

As noted in the above action plan, we will be reviewing and enriching our school website which will increase accessibility for parents, community members and students. We will also continue to train staff and administration to increase effective use of technology. We will be exploring wireless laptops and portable computer labs which will increase accessibility for teachers and students to computer technology. Future funds will be used to purchase 6-12 laptops computers.

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

We feel the success or failure of technology is more dependent on human and contextual factors than on hardware or software. The extent to which teachers are trained to use computers to support students' learning plays a role in determining whether or not technology has a positive impact on achievement. We will begin to have teachers rate their level of educational technology use on the Educational Technology Standards and Performance Indicators for all teachers developed by the National Educational Technology Standards Project. (<http://cncts.istc.org>). During September 2007-10 teachers will participate in workshops focusing on how to integrate technology into the classroom.

### **12. Professional Development**

Technology Integration Specialist will provide on-going professional technology training to teachers, as needed and will assist in development of technology benchmarks and facilitate training needed for implementation of these benchmarks. Training for the NWEA database assessment program will continue and training for other software/hardware implementations will be provided, as needed. Educational Technology standards will be used as a guide in developing professional training.

### **13. Innovative Delivery Strategies**

- Exploration of accredited online course for students and teachers
- Investigate Satellite technology for our isolated rural schools
- Special Ed will continue to utilize technology for special needs students
- Use School website to communicate with community members

### **14. Accountability Measures**

Teachers will rate their degree of technology integration into the curriculum and will rate students use of technology, using performance indicators, developed from National Educational Standards Project. Community members will be able to assess a completed and usable School website. A reviewed and benchmarking curriculum for K-12. The technology Integration Specialist will continually upgrade and replace equipment as needed. Student questionnaire data from the Maine Educational Assessment will be reviewed to assess trends in computer accessibility.