

RE: WC Docket No. 10-222

Merrill Community Schools

555 W. Alice St

Merrill, MI 48637

Responding on behalf of Superintendent JOHN M. SEARLES

Kevin Vaughn LJS & Associates

Received & Inspected
DEC 17 2010
FCC Mail Room

PUBLIC NOTICE

Federal Communications Commission 445 12th St., S.W. Washington, D.C.
20554

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<http://www.fcc.gov> <ftp.fcc.gov> DA 10-2128

DA 10-2128

Released: November 8, 2010

WIRELINE COMPETITION BUREAU ANNOUNCES APPLICATION DEADLINE FOR THE E-RATE DEPLOYED UBIQUITOUSLY (EDU) 2011 PILOT PROGRAM

WC Docket No. 10-222
Application Deadline: December 17, 2010

Application Length. Applications shall be no longer than 20 pages including any exhibits. Any relevant technology planning documents (see number 8, below), however, do not count toward the 20 page limit. The Commission will not review any application that is greater than 20 pages in length.

Required Information (all applicants). The application must contain the following information for all applicants:

- (1) a full description of the current or planned Applicant Wireless Program, including but not limited to:
 - a. the nature of the Applicant Wireless Program, including the extent to which the use of connectivity is interactive and utilizes the Internet,

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Merrill Community Schools trial program using mobile wireless devices to assist and extend the instructional day has provided an understanding of the necessary ingredients usually overlooked by schools not having our hands on experience.

Assignments are delivered via the internet to specific mobile wireless devices (BlackBerry-Type device; HTC PRO TOUCH by Verizon.) It is the use of this technology that allows for greater inclusion of general and special education students without requiring them to be on school grounds and in classrooms.

A teacher in a classroom gives one assignment to many students. Depending on the codes used for the students the delivered assignments would be specific towards each child's ability.

Moreover as students spend up to 1.5 hours on the school bus per day in our community the mobile wireless devices and wireless network permits an extension to the learning day.

b. how long the Applicant Wireless Program has been in operation and the mobile wireless device(s) being used,

Merrill Community Schools began a trial on March of 2010 which ended May 30th 2010. During this trial 150 of these mobile wireless devices were distributed to students in the 5th and 9th grades. The trial came to an end due to lack of funding.

c. a description of any technical issues associated with implementing the Applicant Wireless Program, including an analysis of any problems with the availability of wireless access to students or patrons off the school or library premises and how those issues are being or will be addressed by the school or library,

Teachers have reported slow downloads of software and content but were able to get past that problem by programming the mobile wireless devices while connected to the wireless local area network(wlan) on campus. Once MERRILL COMMUNITY SCHOOLS got through the first 2 weeks of the implementation everything worked fine.

d. what training has been or will be provided to teachers, librarians, students or parents to implement the Applicant Wireless Program, and

MERRILL COMMUNITY SCHOOLS engaged for 2 days of training from Go Know, a provider of software that enhances the usage of these mobile wireless devices. (www.goknow.com)

Parents will be included in future training. Community forums and blogs will be utilized.

e. the extent to which the Applicant Wireless Program is integrated with federal, Tribal, state, regional or local governmental or non-profit initiatives to achieve educational or community access outcomes;

Not applicable

(2) the poverty level based on the percentage of students eligible for a free or reduced-price lunch under the national school lunch program (NSLP) or a federally approved alternative mechanism, and the current discount rate of the school or library;

471 Application No: 709342

Funding Year: 07/01/2010 -
06/30/2011

Cert. Postmark
Date: 01/04/2010

Form Status: CERTIFIED - In
Window

RAL Date: 01/21/2010

Out of Window Letter Date: Not
applicable

Block 4: Worksheets

Student Count: 778

Worksheet A No:
1155125

Weighted Product (Sum. Column 8): 534.6

Shared
Discount: 69%

1. School Name: MERRILL BOARD OF EDUCATION

2. Entity Number: 16027717 NCE: 26 26310 00000

3. Rural/Urban: Urban

4. Student Count: 0 5. NSLP Students: 0 6. NSLP Students/Students:

7. Discount: 73% 8. Weighted Product: 0

9. Pre-K/Adult Ed/Juv: N 10. Alt Disc Mech: N

1. School Name: MERRILL BUS GARAGE

2. Entity Number: 16027718 NCE: 26 23610 00000

3. Rural/Urban: Urban

4. Student Count: 0 5. NSLP Students: 0 6. NSLP Students/Students:

7. Discount: 73% 8. Weighted Product: 0

9. Pre-K/Adult Ed/Juv: N 10. Alt Disc Mech: N

1. School Name: MERRILL ELEMENTARY SCHOOL
2. Entity Number: 56172 NCES: 26 23610 06041
3. Rural/Urban: Urban
4. Student Count: 339 5. NSLP Students: 184 6. NSLP Students/Students: 54.277%
7. Discount: 80% 8. Weighted Product: 271.2
9. Pre-K/Adult Ed/Juv: N 10. Alt Disc Mech: N

1. School Name: MERRILL SENIOR HIGH SCHOOL
2. Entity Number: 56174 NCES: 26 23610 06040
3. Rural/Urban: Urban
4. Student Count: 439 5. NSLP Students: 190 6. NSLP Students/Students: 43.280%
7. Discount: 60% 8. Weighted Product: 263.4
9. Pre-K/Adult Ed/Juv: N 10. Alt Disc Mech: N

(3) the financial need of the school or library, including any additional budgetary hardships, notwithstanding the school or library's current discount rate;

Merrill Community Schools are located in the great state of Michigan which has decreased funding levels by 2-3% per year over the last 5 years. This along with other cost such MPSERS 3% increase (retirement), healthcare (37% percent increase this year) result in a net deficit of more than 5% each year over the last 5 years.

(4) all costs, including those eligible for E-rate support and those not eligible for E-rate support, associated with implementing the Applicant Wireless Program, including but not limited to costs for equipment such as e-readers or laptops, access and connection charges, teacher training, librarian training, or student/parent training;

Monthly	Units	Months (3 months of 12 are Vacation mode)	Total Annually	ERATE 69%
49.99	160	9	\$ 71,985.60	\$ 49,670.06
District Portion		\$		
=		22,315.54		
GoKnow	Units	Annually		
\$30.00	160	\$4,800.00		
Training and implementation		\$5,000.00		

(5) the committed school or library resources available to implement the entire Applicant Wireless Program, including whether those funds are from the school or library's general budget or from an outside funding source;

Technology Budget

for

2009-2012

	General Fund	Federal	Others
Salaries/Benefits	\$12,000		
Maintenance/Service	\$20,000		
Network Cost	\$30,000		
Desktop Hardware	\$20,000		\$750
Desktop Software	\$5,000		\$750
Professional Dev.	\$1,500	\$6,800	
Technical Assistance	\$3,500		
Engineering (Contracted) Support	\$5,000		
	Budget Process will reflect 4-5 year cycle of replacement/ upgrades	Title II A Title II D	REMC Grant

Resources from the GENERAL FUND will be utilized to make this happen. Additionally, grants from local philanthropic organizations such as the Dow Group will be sought.

(6) the effect EDU2011 support for off-premise connectivity is likely to have upon the school's or library's projects;

Merrill Community Schools implementation of the mobile wireless program allows ubiquitous learning day and evening utilizing school resources. Students spend an average of 1 hour per day on school transportation. MERRILL COMMUNITY SCHOOLS are not located in a large or heavily populated city. There are not Mc Donald's, Panera Bread's or StarBuck's where Wi Fi is readily available and FREE. Our students need access to mobile wireless technology. We have chosen BlackBerry-type devices that are specific to learning, testing and analysis. These are NOT cell phones but facilitate access to an ever expanding universe of learning.

At the 9th grade level teachers are writing and developing courses for these students using Moodle. (template software for teachers developing courses.) This will increase the usage of mobile wireless technology and extend availability for students who don't have internet access at home.

(7) an analysis of the cost-effectiveness of the current or planned Applicant Wireless Program as compared to the use of other types of technology that would also meet the Program's objectives;

Laptops, iPADS, AIR Access Cards and or wireless cards technology are expensive. Maintenance on those devices would be economically burdensome. Batteries need to be replaced. Problems with electric cords in the classrooms and not having enough electric outlets dictate the more economical mobile wireless devices.

(8) any relevant technology planning documents and, if applicable, a statement of long-term objectives for the Program;

See District Technology plan ATTACHED.

(9) a description of the specific measures taken, or that will be taken, to ensure compliance with the Students' Internet Protection Act and measures to protect against waste, fraud, and abuse; and

Merrill Community Schools in conjunction with Verizon Wireless allows only the first two levels of filtering and blocks the 3rd level (see below).

Level Title	Description	Included Content
C7+ (Child 7+)	<ul style="list-style-type: none"> • Content recommended for those age 7+ • Little to no: <ul style="list-style-type: none"> ○ Violence ○ Sexual dialogue or situations • No: <ul style="list-style-type: none"> ○ Strong language ○ Mature themes 	<ul style="list-style-type: none"> • TV-G • G movies • Certain Web/WAP sites • Education, Weather, Sports
T13+ (Teen 13+)	<ul style="list-style-type: none"> • Content recommended for those age 13+ • May contain: <ul style="list-style-type: none"> ○ Mild coarse language ○ Moderate violence ○ Some sexual dialogue or themes 	<ul style="list-style-type: none"> • TV-PG/TV-14 • PG/PG-13 movies • Certain Web/WAP sites • Certain Blogs • Search Engines & Chat
YA17+ (Young Adult 17+)	<ul style="list-style-type: none"> • Content recommended for those age 17+ • May contain: <ul style="list-style-type: none"> ○ Strong language ○ Violence ○ Sexual situations ○ Drug abuse 	<ul style="list-style-type: none"> • TV-MA • R movies • Certain Web/WAP sites • Content rated "Parental Advisory-Explicit Content" • Search Engines • Graphic Violence

(10) a description of internal policies and enforcement procedures governing acceptable use of the wireless devices used in the Program off the school or library's premises.

UPDATED FOR THIS PROGRAM -

MERRILL COMMUNITY SCHOOLS

2010-2011 SCHOOL YEAR

NETWORK/INTERNET ACCEPTABLE USE POLICY

Use of the Merrill Community School District's educational technology, including student access and use of the Internet through the MERRILL COMMUNITY SCHOOLS/Net (Merrill Community School Network) is strictly limited to legitimate educational purposes. It is to be used solely to support and enhance the School District's curriculum in a manner, which is consistent with the Merrill Community School District's mission statement.

Merrill Community Schools recognizes the value of the Internet, as well as its inherent dangers. In accordance with the Students' Internet Protection Act (CIPA), the school district has instituted policies and procedures to facilitate student safety while on-line.

Filtering

The school district participates in a county wide consortium known as Saginet, through which the district receives Internet access, as well as content filtering services. Its content filter makes it possible to identify and block access to Internet sites containing sexually explicit content or other material inappropriate for the school district.

Technology Protection Measures and Internet Safety Policy

Student use of the Internet at Merrill Community Schools will be monitored by staff in a manner which is appropriate to the age of the students and circumstances of use. As stated in the Acceptable Use Policy (AUP), students shall not access material which is obscene, pornographic, harmful to minors, or otherwise inappropriate for educational use. Students shall not use school resources to engage in so-called "hacking" or other unlawful activities. Furthermore, students shall not disclose, use, or disseminate personal information about themselves or regarding other minors.

Access to the MERRILL COMMUNITY SCHOOLS/Net includes an individual directory as well as Internet privileges. The network administrator reserves the right to monitor ALL activity on the system. Network storage areas are subject to inspection without notice at the request of any staff member. This is necessary to maintain system integrity and to insure that users are using the system responsibly. Users should not expect that files stored on district servers will be private. This storage space, like the whole system, should be used exclusively to store files that are directly related to course work.

Use of the MERRILL COMMUNITY SCHOOLS/Net and stand-alone computers, wireless devices including cell phones with internet access and other Wi Fi devices is governed by the following rules:

1. Students may use the network only after the school has received the "Network Access Agreement", signed by the student and parent.
2. Students are solely responsible for their own user-ID and passwords. Sharing passwords or using another's password is prohibited. Students are accountable for any misuse of the systems done under their login. If you suspect your password has been compromised, see the network administrator immediately to change it.
3. As stated earlier, the MERRILL COMMUNITY SCHOOLS/Net and Internet access are intended for

educational purposes only. This prohibits actions such as: using chat rooms, using e-mail, playing games, etc. and downloading and/or storing any data in your network drive which is not directly related to coursework.

4. Vandalism to a computer system can take many forms, and is prohibited by this policy. Vandalism might include, but is not limited to:
 - installing or removing software from a computer or network drive
 - downloading or storing any data on the computer
 - storing data on the network other than in your assigned network drive
 - damaging the computer and its peripherals (monitor, keyboard, mouse, scanner, mouse pad, etc) in any way
 - removing any items from the computer or its peripherals
 - rendering the computer or the network inoperable
 - performing any act that diminishes the performance or the computer or the network
 - gaining unauthorized entry into a file for any purpose
 - introducing a virus, either intentionally or through irresponsible handling of data and telecommunications resources.

The network administrator may define additional areas of vandalism.

5. The purchase, sale, and/or advertisement of goods or services via the Internet is prohibited.
6. Violation of copyright, trademark, trade secrets, or licensing agreements is prohibited.
7. Users of the MERRILL COMMUNITY SCHOOLS/Net must not use the system to access information or communications that are indecent, profane, vulgar, threatening, defamatory, or an invasion of privacy. A user who unknowingly does this should inform a staff member immediately. The network must not be used for anything other than teacher supervised, course related work.
8. Users of the MERRILL COMMUNITY SCHOOLS/Net are responsible for respecting and adhering to local, state, federal, and international laws.
9. The superintendent is responsible for directing appropriate District technology staff to bring all computers used by students and adults into full compliance with all federal requirements regarding Internet filtering software to assure that District discounts for Internet access and internal connections under the federal E-rate program are not jeopardized.
10. Student Internet activities will be monitored by the District to ensure that students are not accessing inappropriate sites. Each District computer with Internet access has a filtering device or software that blocks access to visual depictions that are obscene, pornographic, inappropriate for students, or harmful to minors.
11. The MSC/Net is a monitored network and not stated or implied guarantee is made regarding the privacy of any communications, or storage space.
12. The District does not guarantee that the functions of the system will meet any specific requirements the user may have, or that it will be error free or uninterrupted.
13. The District shall not be liable for any direct or indirect, incidental or consequential damages (including, but not limited to, lost data, information, time, or any harm caused by exposure to offensive material) sustained or incurred in connection with the use and operation of the system or

the inability to use the system.

14. The user may be required to make full financial restitution for unauthorized expenses incurred through the use of educational technology inconsistent with the agreement.
15. The use of the MERRILL COMMUNITY SCHOOLS/Net is a privilege, not a right, and inappropriate use will result in disciplinary action. In the event a violation of this agreement occurs, the following procedure is followed:
 - the staff member observing the violation fills out the AUP violation form
 - the form is turned in to the network administrator
 - the personal directory is inspected and the account is locked
 - a review committee meets to decide what, if any, punishment is warranted
 - the user and parent are notified of the committee's decision
 - if the user feels the punishment is unfair or unwarranted, he/she is given an opportunity to address the committee

Copies of the AUP violation form, as well as the guidelines used for discipline, may be obtained by request from the technology office.

16. A user's access to the MERRILL COMMUNITY SCHOOLS/Net will be terminated thirty days after the user leaves the Merrill Community School District.

MERRILL COMMUNITY SCHOOLS

2009-2010 SCHOOL YEAR

NETWORK ACCESS AGREEMENT

Student's Full Name _____

I understand and will abide by the District Network/Internet Acceptable Use Policy. I further understand that if I violate any of its provisions, my access to and/or use of the computer network and other technologies may be terminated, and I may face other school disciplinary measures as well as appropriate legal action.

STUDENT'S SIGNATURE _____ DATE _____

PARENT OR GUARDIAN SECTION

I have read the District Network/Internet Acceptable Use Policy. I hereby release the District, its personnel, and any institutions with which it is affiliated, from any and all claims and damages of any nature arising from my child's use of or inability to use the District system. This includes, but is not limited to, claims that may arise from the unauthorized use of the system to purchase products or services.

I will instruct my child regarding the restrictions set forth by the Merrill Community School District Network/Internet Acceptable Use Policy. I understand that his/her access may be terminated in the event of any violation of this policy, and I will emphasize to my child the importance of following the guidelines.

I give permission to issue access to my child and certify that the information contained in this form is correct.

PARENT'S PRINTED NAME _____

PARENT'S SIGNATURE _____

DATE _____

HOME ADDRESS _____

Required Information (schools only). The applications filed by schools also must contain the following information:

(1) the location of the school district ;

555 W ALICE ST

MERRILL, MI 48637

(2) the name of the school applicant, along with a complete list of the individual schools that will be served, including their billed entity numbers;

Merrill Community Schools BEN: 131115

56172

MERRILL ELEMENTARY SCHOOL

MI SCHOOL

56173 MERRILL MIDDLE SCHOOL MI SCHOOL

56174 MERRILL SENIOR HIGH SCHOOL MI SCHOOL

(3) a description of the school district or school, including the type of school, such as private, public, charter, or other special type of school;

Public School District.

(4) a description of the Program's curriculum objectives, the grade levels included, and the number of students and teachers involved and/or being served as part of the program; and

See Technology plan.

(5) a summary of any data collected by the school on Program outcomes and achievement of Program objectives.

Not applicable

Applicants must also apply for E-rate funding by following the regular E-rate program rules. Specifically, in addition to the information requested above, eligible schools and libraries must submit an FCC Form 471 application to USAC during the regular application window. We direct applicants to file an FCC Form 471 application specifically for the wireless connectivity services to be used off-premises as part of the program for which the applicant is seeking funding and file a separate FCC Form 471 for any services to be used on premises. Applicants should type "EDU2011" in the form identifier field of the FCC Form 471 application for the wireless connectivity services to be used off-premises. Applicants should also list all of the schools and/or libraries that will be receiving the off-site wireless connectivity services in Block 4 of the FCC Form 471 application. Because potential applicants will most likely already be using portable wireless devices in their school or library, applicants may have an established relationship with a service provider. Therefore, the Commission has waived, to the extent necessary, the applicable sections of the Commission's E-rate competitive bidding rules for those EDU2011 pilot program applicants that have already entered into

legally binding agreements with service providers for off-premises connectivity for portable wireless devices.⁴

⁴ *Schools and Libraries Sixth Report and Order* at para. 47; 47 C.F.R. § 54.504 (2009).

⁵ This funding only relates to support for wireless, off-premises connectivity service, and not the purchase of devices or equipment, such as mobile broadband cards, smartphones, or digital textbooks. *Schools and Libraries Sixth Report and Order* at paras. 46, 50.

The Wire line Competition Bureau (Bureau) will notify applicants and USAC when it has selected applicants to participate in the EDU2011 program. Selected applicants will receive the allotted connectivity support and will not be required to cost-allocate the dollar amount of support for the time that portable devices are not on school or library premises.⁵ Applicants will receive funds sufficient to cover the amount of connectivity expenses eligible for E-rate funding based on their discount; they will still be required to pay their non-discount share. After the one-year trial period, participants will be required to submit a report to the Bureau describing in detail any data collected as a result of the program and a narrative describing lessons learned from the program, which may assist other schools and libraries desiring to adopt similar programs in the future.

EDU2011 Application Filing Procedures:

Eligible schools and libraries may submit their applications either (1) by using the Commission's Electronic Comment Filing System (ECFS) or (2) by filing paper copies. **All applications submitted as part of the EDU2011 pilot program must refer to WC Docket No. 10-222.**

Electronic Filers: Applications may be filed electronically using the Internet by accessing the ECFS: <http://fjallfoss.fcc.gov/ecfs2/>.

Paper Filers: Filings can be sent by hand or messenger delivery, by commercial overnight courier, or by first-class or overnight U.S. Postal Service mail. All filings must be addressed to the Commission's Secretary, Office of the Secretary, Federal Communications Commission.

All hand-delivered or messenger-delivered paper filings for the Commission's Secretary must be delivered to FCC Headquarters at 445 12th St., SW, Room TW-A325, Washington, DC 20554. The filing hours are 8:00 a.m. to 7:00 p.m. All hand deliveries must be held together with rubber bands or fasteners. Any envelopes must be disposed of before entering the building.

Commercial overnight mail (other than U.S. Postal Service Express Mail and Priority Mail) must be sent to 9300 East Hampton Drive, Capitol Heights, MD 20743.

U.S. Postal Service first-class, Express, and Priority mail must be addressed to 445 12th Street, SW, Washington DC 20554.

Eligible schools and libraries may also send a courtesy copy of their filing via email to EDU2011pilot@fcc.gov or by mail to Regina Brown, Telecommunications Access Policy Division, 5

Wireline Competition Bureau, Federal Communications Commission, 445
12th Street, S.W., Room 5-A360, Washington, D.C. 20554 or Rebekah Bina,
Telecommunications Access Policy Division, Wireline Competition
Bureau, Federal Communications Commission, 445 12th Street, S.W., Room
5-B521, Washington, D.C. 20554.

For further information, please contact Regina Brown or Rebekah Bina,
Wireline Competition Bureau at (202) 418-7400 or TTY (202) 418-0484.

- FCC -



Technology Plan

July 2006 – June 2012

John M. Searles, Superintendent
Merrill Community Schools

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District Code: 73-230

Saginaw ISD

Section 1



Section 2 – Introduction to Merrill Community Schools

District Mission Statement

The mission of Merrill Community Schools is to create and maintain a safe environment that ensures every student reaches a high level of academic achievement. We will engage students through innovative and differentiated learning to meet requirements set by the State of Michigan. We commit to a comprehensive system of support in which students, staff, family and the community work collaboratively to ensure student success.

District Profile

Merrill Community School District encompasses 125 square miles of rural townships in Saginaw, Midland, and Gratiot counties. The educational programs are housed in three buildings, one elementary with a student population of 358, one middle school with a student population of 187 and one high school with a student population of 280. The elementary also houses a preschool program which serves 42 children, and a Head Start program run in cooperation with Saginaw Intermediate School District. All buildings are located in the village of Merrill. This district serves an average of 800 students. The staff consists of 44 teachers, two principals and an assistant, three counselors, and 48 support staff. The socio-economic status of the community is lower middle class.

There have been no major building renovations since the last bond construction project was completed in 1998. During the summer of 2006, there was a major renovation to lighting and heating infrastructure.

School Buildings

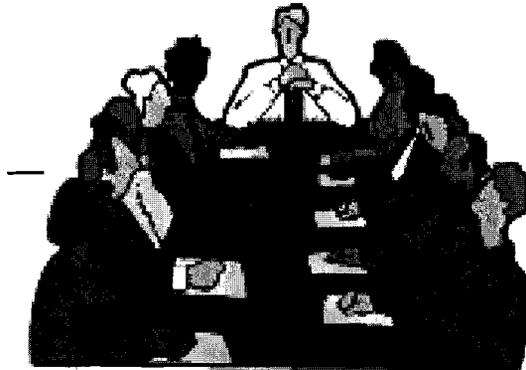
- Merrill Elementary 345 W. Alice Street, Merrill 48637
- Merrill Middle 755 W. Alice Street, Merrill 48637
- Merrill High School 555 W. Alice Street, Merrill 48637

Members of the Merrill Board of Education

Dan Armentrout, President
John Johnson, Vice-president
Betsy Wietfeldt, Secretary
Christine Porras, Treasurer
Brent Brown, Trustee
Sara Kipfmiller, Trustee
Lori Knierim, Trustee

Contributors to the development of the Merrill Technology Plan include:

Theresa Devault	Middle School Special Education Teacher
Chris Garno	Middle/High School Principal/Parent of 10 th grade student
Carrie Gauthier	High School Business/English Teacher
Allison Jordan	High School English/History Teacher/Parent of 5
Sarah Kettelhohn	Middle/High School Assistant Principal
Rod Kitzmiller	High School History/On-line Teacher/Parent of 2
Tom Lockwood	Technology Consultant
Pam Schomaker	Elementary Principal
John M. Searles	Superintendent/Parent of 4
Mary Siler	Building Secretary
David Smith	First Grade Teacher
Mary Stapleton	Middle/High School English Teacher
Marlene Stavely	Paraprofessional
Tara Mager	High School Guidance Counselor
Kathleen Waterman	Kindergarten Teacher
Christine Porras	Board Member/Parent of 1
Betsy Wietfeldt	Board Member/Parent of 3



Section 3 – Vision and Goals

District Technology Vision

Merrill Community Schools is committed to providing exemplary leadership, training and support to all involved in the teaching and learning process, enabling individuals to solve problems through the effective application of technological tools.

Background

A Technology Committee was formed in 1994 to study the district needs. In 1996 the Committee, in conjunction with URS Greiner developed a needs assessment survey for the school community. Since that time, the district's technology has continued to age without significant updating. In 2004, the computer lab was updated with new computers. In 2005, we began the process of systematically replacing the computers in classrooms and computer labs. Central office computers were replaced as were all classroom teacher workstations. In 2006, the lab in the middle/high school media center was replaced as were the other computers in the media center. In addition, a new computer lab was added for the 2006-2007 school year which houses the district's virtual school.

How the technology plan ties in with the district mission and school improvement plan:

Merrill Community Schools will motivate, improve and expand our learning community through technology.

Major goals of the technology plan:

- Provide equity for all students in using and integrating technology into everything they do in school
- Develop appropriate technological skills sequentially through all grade levels
- Stress the ethical use of technology
- Promote the integration, application, and use of technology to solve problems utilizing various telecommunication technologies

Goals for district teachers and students:

- Provide authentic assessment of students' skills in technology at each grade level
- Enhance the study of all curriculum areas by providing tools for performing tasks more efficiently
- Foster individual and cooperative learning skills

Evaluation/Monitoring:

- Student progress will be monitored by assessing the percentage of students reaching proficiency with the district's technology outcomes
- Re-evaluation of the technology plan and it's effectiveness will be monitored by the District Continuous Improvement Team
- Administration will be responsible for assessing staff implementation of the technology curriculum

Section 4 – Curriculum Integration

Student Instructional Outcomes

Merrill Community Schools' students will benefit from educational technology as evidenced by their capacity to effectively demonstrate the following proficiencies:

- The student uses technological processes and systems.
- The student is able to explain the impact and use of technology in today's information age.
- The student demonstrates problem-solving skills using technology as a tool.
- The student demonstrates creativity in utilizing technology to express himself/herself.
- The student is an active participant in the learning process and learns independently.
- The student will be able to find reliable information on the Internet.
- The student is able to access real-time information, integrate the information and incorporate it into a verbal and/or written presentation.
- The student increases his/her productivity by utilizing technology to achieve his/her goals.

Kindergarten

1. Identify Parts and Hardware.
2. Identify how to turn the computer on and off.
3. Identify and use the keyboard functions, including enter and spacebar.
4. Use icons to open a software program.
5. Use the mouse to point, click, and close programs.

First Grade

1. Review and apply Kindergarten Benchmarks.
2. Identify home row.
3. Identify and select from the desktop appropriate grade level software.
4. Describe technology used at home.
5. Demonstrate ability to print.
6. Learn basic computer care.

Second Grade

1. Review and apply K-1 Benchmarks.
2. Accurately demonstrate the home row and hand position.
3. Demonstrate familiarity with the font selection and size.
4. Demonstrate the use of the file menu: open, save, print, and close.
5. Become familiar with the toolbar.
6. Demonstrate word processing skills by creating a product.
7. Demonstrate proper handling of hardware.
8. Demonstrate Internet exploration skills.
9. Become familiar with reference software programs.

Third Grade

1. Review and apply K-2 Benchmarks.
2. Demonstrate use of the keyboard with correct fingering for letter, shift, punctuation keys, and spacebar.
3. Type 5-10 wpm.
4. Use the File Menu: new, open, close, save/save as, print preview, and print.
5. Use the edit menu to undo.
6. Become familiar with use of right click mouse function.
7. Use a menu to add graphics.
8. Perform basic text formatting tasks including: font style & size, color, bold, italic, and underline.
9. Become familiar with copyright laws and licensing.
10. Become knowledgeable of the appropriate use of the Internet, safety rules, privacy, and District Acceptable Use Policy.
11. Develop a multimedia presentation using designated software (Power Point).

Fourth Grade

1. Review and apply K-3 Benchmarks.
2. Master Left/Right and Home Row hand positions.
3. Type 10-15 wpm with 65% accuracy.
4. Use the Edit Menu to Cut, Copy, and Paste.
5. Use technology when possible in curricular areas: Language Arts, Math, Science, Social Studies, Art, Physical Education, and others as appropriate and available.
6. Describe the impact of the Information Age on people's lives.
7. Be familiar with the Copyright and Licensing Laws.
8. Review and comply with the District Acceptable Use Policy.
9. Use Desktop Publishing.
10. Use the Internet as a research tool: type URL in location box; use appropriate search engines; beware of the accuracy, relevance, appropriateness, and comprehensiveness of electronic information sources; and follow Internet etiquette
11. Demonstrate independent use of media center technologies.
12. Demonstrate independent access and use of on-line databases.

Fifth Grade

1. Review and apply K-4 Benchmarks.
2. Develop a report using word processing.
3. Set margins and change page orientation.
4. Create and name folders.
5. Include the use of the Paint feature.
6. Create a multimedia project using the skills mastered in previous grades (Power Point).
7. Use desktop publishing software to create a student project.
8. Use appropriate software.
9. Utilize online sources (encyclopedia, search engines).
10. Use relevance and accuracy in online research.
11. Use Internet information to produce a product (report, etc).

Sixth Grade

1. Review and apply K-5 Benchmarks for mastery and refinement.
2. Discuss advancements in technology/impact of technology on society.
3. Demonstrate knowledge of and comply with the Merrill Community Schools Acceptable Use Policy.
4. Develop a word processing document that utilizes merging information using the cut and paste features.
5. Develop a document and/or artwork using the Paint option (Advanced Application).
6. Develop and present a multimedia presentation using scanner, digital camera, and skills developed in previous grades.
7. Use the Internet and other online resources for research and communication to demonstrate basic Internet search skills.
8. Exhibit relevance and accuracy in online research.

Seventh Grade

1. Demonstrate mastery of all K-6 Technology Benchmarks.
2. Demonstrate the appropriate use of the Internet.
3. Demonstrate knowledge of and comply with The District Acceptable Use Policy and Copyright and Licensing Laws; follow Internet etiquette.
4. Model ethical, legal, safe and responsible behavior when using technology.
5. Use word processing features to import pictures and develop documents, reports, and letters.
6. Develop spreadsheets using: Cells, Rows, Cell formats, Row formats, Column formats, Number formats, Alignments, Formulas, Graphs, and Charts.
7. Format a disk.
8. Engage in an introduction to spreadsheets, and create a simple spreadsheet.
9. Demonstrate e-mail etiquette.

Eighth Grade

1. Demonstrate mastery of all K-7 Technology Benchmarks.
2. Demonstrate more advanced features of word processing, spreadsheets and database computer applications to produce an integrated product.
3. Continually model ethical, legal, safe, and responsible behavior in using technology.
4. Continually follow Internet etiquette.
5. Demonstrate basic file management.
6. Use content- specific technologies.
7. Merge digital imaging in a product or multimedia presentation.
8. Practice e-mail skills.
9. Use the Internet for research to produce a product: Develop a search strategy using key words, demonstrate the use of strategies for online searching to aid in the management and movement of data, use online resources (topic appropriate), evaluate information obtained from web sites, and organize and analyze information in order to draw conclusions and implications.

High School

1. Demonstrate mastery of all K-8 Benchmarks by applying mastered skills across the curriculum.
2. Produce word-processed documents as dictated by current industry trends (in all subject areas, e.g., Portfolio and English).
3. Manipulate databases by gathering data and reporting, interpreting, and communicating results (in all subject areas, e.g., English, Science, Social Studies, and Business).
4. Process numeric information using a spreadsheet (in all subject areas, e.g., Science and Math).
5. Use content-specific software (in all subject areas, e.g., CADD, Reading, Art, Science, English, and Math).
6. Investigate careers that use various technologies (in all subject areas, e.g., Business, and Seminar).
7. Understand and use online resources (in all subject areas).
8. Utilize virtual and simulated learning opportunities (in all subject areas, e.g., Business, Science, Social Studies),
9. Create document using desktop publishing software applications (in all subject areas, e.g., Journalism, English, and Social Studies).
11. Discuss and model ethical, legal, safe and responsible use of technology (described in student and teacher handbooks).
12. Update resume for portfolio.
13. Develop basic understanding of network and what it does.
14. Produce advanced multimedia presentations.
15. Use advanced Internet tools.
16. Create a web page.