



Warren Consolidated School District

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Educational Technology Plan

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ISD: Macomb Intermediate School District

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Section 2 - Introductory Material

Mission Statement

The mission of the Warren Consolidated School District, in partnership with families and community, is to create the best school system that will ensure the highest quality of teaching and learning to enable all students to become knowledgeable, ethical, and successful citizens.

Demographics

The Warren Consolidated School District (30.6 square miles) was incorporated from five independent K-8 elementary schools centered on the Village of Warren in September 1941. It included the southern one-third of Sterling Township, the northern one-third of Warren Township and the southeast 2 ½ square miles of Troy Township. During that time, the population was mostly farmers of German and Belgian ancestry and people who worked in Detroit.

According to 2000 census figures, Warren Consolidated Schools has a total population of 122,392 with approximately 19,000 of those are within the ages of 5-18. The next largest population group (10,804) is in the age bracket of 65-74. Fifty four percent of the population has a high school diploma with some college. The highest percentage of households (15.2%) has a household income of \$60,000 to \$74,900.

The district's enrollment grew significantly following World War II as "suburbia" developed with an outward migration of people from Detroit, mostly of Italian and Polish heritage. The major growth, however, occurred with the development of the General Motors Technical Center and major automotive manufacturing or assembly plants starting in the mid-1950s. Warren Consolidated Schools continued to grow in enrollment through the 1974-75 school year when it reached its maximum enrollment of 34,005 students. In that school year, there were 48 operational schools.

Enrollment declined as families remained in the area and the population aged. Newer families moving into Warren Consolidated also had fewer children in comparison to the large families of the 1950's and 60's. Since a low enrollment of approximately 14,100 students in the late 1990's, the primary growth has been comprised of first or second generation immigrant families. Approximately 25% of the district's students speak one of 38 different languages other than English in the home.

The district's enrollment for the 2008/2009 school year is 15,438 students with 28 operational schools. In the 2008/2009 school year the District employed 896 teachers. Due to the downturn in Michigan's economy and recent statewide plant closings, Warren Consolidated Schools anticipates a slow decrease in enrollment and an increase in the number of students who qualify for the National School Lunch Program (NSLP). During the 2007/08 school year, the total number of students enrolled in the NSLP was 5,608 or 36.8% compared to 4,546 or 29% during the 2006/07 school year.

Buildings and Facilities

WCS Administration Building
31300 Anita
Warren, MI 48093

Career Preparation Center
12200 15 Mile Road
Sterling Hts., MI 48312

Butcher Community Education
27500 Cosgrove
Warren, MI 48092

Pfromm Educational Center (closed)
28640 Campbell
Warren, MI 48093

Educational Service Center/Warehouse
31950 Mound Road
Warren, MI 48092

Cousino High School
30333 Hoover Road
Warren, MI 48093

Warren/Mott High School
3131 Twelve Mile Road
Warren, MI 48092

Sterling Heights High School
12901 Fifteen Mile Road
Sterling Hts., MI 48312

Beer Middle School
3200 Martin Road
Warren, MI 48092

Carleton Middle School
8900 Fifteen Mile Road
Sterling Hts., MI 48312

Carter Middle School
12000 Masonic Blvd.
Warren, MI 48092

Flynn Middle School
2899 Fox Hill Drive
Sterling Hts., MI 48310

Fuhrmann Middle School (Closed)
5155 Fourteen Mile Road
Sterling Heights. MI 48310

Grissom Middle School
35701 Ryan Road
Sterling Hts., MI 48310

Angus Elementary School
3180 Hein
Sterling Hts., MI 48312

Cromie Elementary School
29797 Gilbert
Warren, MI 48093

Fillmore Elementary School
8655 Irving Drive
Sterling Hts., MI 48312

Green Acres Elementary School
4655 Holmes
Warren, MI 48092

Harwood Elementary School
4900 Southlawn
Sterling Hts., MI 48310

Hatherly Elementary School
35201 Davison
Sterling Hts., MI 48310

Holden Elementary School
37565 Calka Drive
Sterling Hts., MI 48310

Jefferson Elementary School
37555 Carol Drive
Sterling Hts., MI 48310

Lean Elementary School
 2825 Girard
 Warren, MI 48092

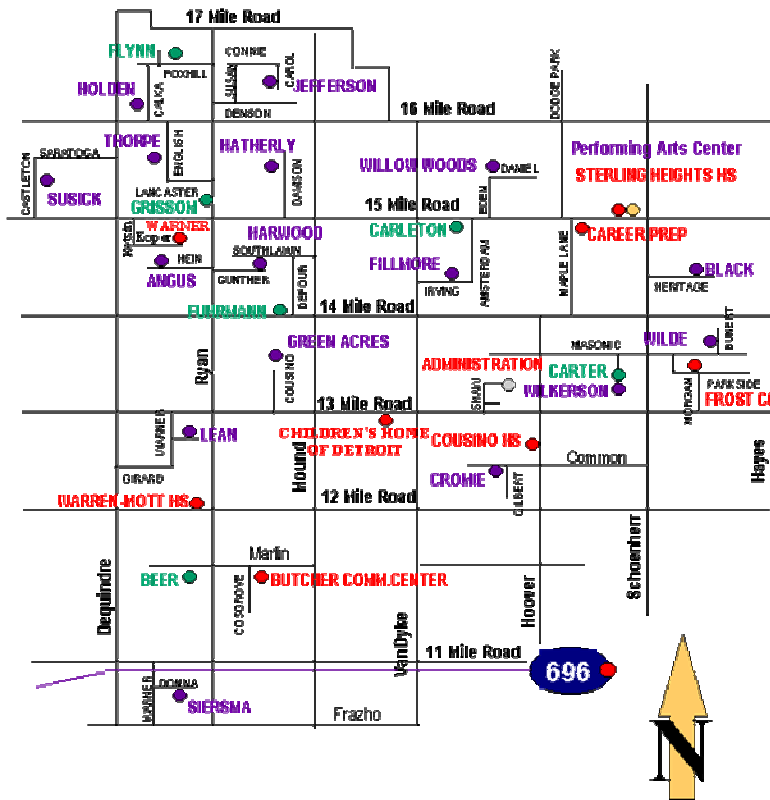
Siersma Elementary School
 3100 Donna
 Warren, MI 48091

Susick Elementary School
 2200 Castleton
 Troy, MI 48083

Wilkerson Elementary School
 12100 Masonic
 Warren, MI 48093

Wilde Elementary School
 32343 Bunert
 Warren, MI 48093

Willow Woods Elementary School
 11001 Daniel Drive
 Sterling Hts., MI 48312



Section 3 - Vision and Goals

District Vision

The Warren Consolidated School District will use technology to enhance educators, students, parents, and community members' ability to access, evaluate, and utilize information. This will maximize their opportunity to be successful citizens who are informed, involved, and life-long learners.

Our focus for all instructional planning is our District Strategic Plan. The following is an outline of how technology forms a partnership with each of the goals in our strategic plan.

District Technology Goals

- A. To coordinate technology initiatives with all curricular areas to ensure a 'State of the Art' curriculum as evidenced by our written board approved curriculum guides. www.wcskids.net/frost
- B. In accordance with the WCS Mission Statement, technology will be supported to the highest quality of teaching and learning.
- C. The WCS Strategic Plan references the 'Lanes of the Highway'. The objectives of the strategic plan are supported by technology in the following manner:

Goal #1 – Warren Consolidated Schools will provide an environment that is physically and emotionally safe for students, staff, and community.

- Implementation of the IP Phone System was completed in 2004 and has provided communication access to and from all classrooms including full 911 services.
- Fortigate is used to filter and monitor internet usage for all staff and students.
- The district Acceptable Use Guidelines will continue to provide parameters for Internet use for students and staff. ([Appendix A](#))
- Security devices such as surveillance cameras and video continue to be implemented and maintained.
- Electronic security doors have been installed and are operational in all buildings.

Goal #2 – Warren Consolidated Schools will develop 'State of the Art' curriculum and instructional programs and practices that will ensure that all students will become successful, involved, and contributing citizens.

- Current software opportunities are available for integration in all curricular areas. (See Section 6 – Technology Delivery)
- D. Professional Staff Development opportunities for teacher use of technologies in an administrative capacity and an instructional capacity are provided at each building by the building technology trainer or sysop. Each school receives two days per month for this training and is provided time as integrated into their weekly Professional Learning Community (PLC) sessions. The MISD offers staff development at a high caliber, often including substitute and tuition reimbursement for teachers.

- Online and distance learning resources are encouraged and supported both instructionally and technically. We currently have three distance learning rooms and six portable conferencing units for distance learning.
- Program options for instructional use located on district servers and individual workstations:
 - E2020
 - New Century
 - Scholastic Reading Inventory
 - Studio 8 (Dreamweaver)
 - Type to Learn (Elementary School)
 - MicroType (Middle School)
 - KidPix
 - Kidspiration/Inspiration
 - Accelerated Reader
 - Microsoft Office & Publisher
 - Photo Story
 - Music Ace

Goal #3 – Warren Consolidated Schools will become the ‘hub’ of each individual community through uniquely designed programs involving community planning and participation.

- A fully interactive web page is maintained centrally and includes:
 - Curriculum Opportunities
 - Community Service Announcements
 - Construction updates related to current bond projects
- Each school maintains an individual school web page to highlight the unique opportunities presented to the community.
- In the past, each school received hours of training on the use of digital video to create web video. This training and implementation will continue throughout the term of the plan.
- Home computers are provided for elementary students who are economically disadvantaged. These computers are provided with basic software packages to complete school assignments.

Goal #4 – Warren Consolidated Schools will repair, refurbish, and modernize our school facilities to ensure student health, safety and comfort, and to maintain community value and pride in our facilities.

- Implementation of the IP Phone system has been completed.
- The district has completed a \$140 million facilities bond project including substantial technology additions.
- Electronic Security upgrades are ongoing in all buildings.
- The energy management system has been upgraded in all buildings which centrally controls and monitors temperatures in each of the rooms, throughout the school district. The district uses this system to secure energy savings based on occupancy and time of day parameters.

Goal #5 – Warren Consolidated Schools will develop an internal and external marketing plan that will ensure quality relationships and build value for all stakeholders and provide collaborative efforts for continued improvement.

- Promotion of WCS opportunities via the district web page.
- A WCS cable channel is supported and maintained to provide information to the community on a timely and ongoing basis. The District also has a radio and television studio located at Cousino High School which serves both an educational purpose and a marketing venue.

Goal #6 – Warren Consolidated Schools will align its policies and organizational responsibilities to reflect increased efficiency in central support systems and shared decision making.

- SchoolDude Help Desk System has been expanded to be used as a reporting system for all technology and operational related concerns.
- Building sysops work as the initial point of contact regarding technology troubleshooting at each building.
- Support/help desk is active 10 hours each day and includes energy management programming.

Section 4 - Curriculum Integration

At Warren Consolidated Schools, technology integration has always been a high priority in instructional planning. WCS uses technology as a tool to enhance student achievement, the objective is for students to select technology tools to help gather information efficiently, and use the information to prepare them professionally for a global society in the 21st Century. Therefore, technology is an integral part of how our classrooms function.

Since the inception of technology at WCS, the focus has been on point of instruction access. WCS supports classroom teacher involvement in technology as it relates to current instructional practices with classroom and lab access for all teachers and students and direction from our technology staff and local ISD. Our District Instructional Staff is accountable for providing all staff, students, and community with data-driven, flexible, efficient, and goal-oriented services, while collectively collaborating, creating, cultivating, and communicating curriculum. WCS has implemented a Professional Learning Communities model for curriculum collaboration at each local school. Teachers are provided the opportunity to discuss individual student's instructional needs on a weekly basis and plan interventions as they relate to specific student needs. In addition to the Instructional Staff, all our buildings have technology trainers who receive training in any updated curriculum expectations and technology implementations. They are provided time monthly to update staff on these initiatives.

Each school in the Warren Consolidated School District also has a full-time media specialist position. This position is focused on the use of technology and information literacy to support appropriate integration of technology into grade level classroom instruction in a team relationship with the building administration and each teacher. Current guidelines exist for elementary and secondary schools in accordance with the published State of Michigan Educational Technology Standards (METS) <http://www.michigan.gov/mde>, the International Society for Technology in Education (ISTE) Standards, and No Child Left Behind (NCLB) legislation.

In aligning curriculum to meet the needs of METS, ISTE and NCLB, the technology standards are being integrated into each content area pacing guide. This initiative began in 2006 and continues with current committee work involving instructional staff and administration in the 2008-2009 school year and beyond.

WCS had a couple of pilot schools participate in a MISD sponsored data warehouse system. Data Director has been adopted for use throughout the district. This system will enable WCS to store all pertinent student demographic and test data to enable teachers, principals, and administrators to a means evaluate and improve individual, classroom, and overall school achievement.

Technology applications supporting our board approved curriculum initiatives and state approved curriculum includes, but is not limited to, the following:

- McDougal Littell for Mathematics
 - ✓ Grade 6-8
 - ✓ Algebra 1
 - ✓ Algebra 2
 - ✓ Geometry
 - ✓ Calculus

- Classzone.com for students (aligned with the GLCE's)
- Site Licenses for Texas Instruments TI Interactive Graphing Program
- 'Green Globes' allows students to plot lines and write equations
- 'Geometer Sketchpad'
- AP Psychology Instructor Presentation, student, and AP Study Guide on CD-ROM, Scientific American Frontier, The Brain, and The Mind on DVD.
- Economics

The timeline for integrating technology into the core curriculum is outlined in the following table.

**Technology Curriculum Integration Timeline
Warren Consolidated Schools
2009-2012**

Curriculum Area	2009-2010	2010-2011	2011-2012
English Language Arts	Still in progress. Review K-5 WCS ELA curriculum guides by grade level to match METS standards to appropriate lessons, projects, and assignments in the scope and sequence.	Still in progress. Review 6-8 WCS ELA curriculum guides by grade level to match METS standards to appropriate lessons, projects, and assignments in the scope and sequence.	Still in progress. Review 9-12 ELA curriculum guides for each course. In each mandatory course match METS standards to appropriate lessons, projects, and assignments in the scope and sequence.
Mathematics	Still in progress. Review 6-8 WCS Math curriculum guides by grade level to match METS standards to appropriate lessons, projects, and assignments in the scope and sequence.	Still in progress. Review 9-12 Math curriculum guides for each course. In each mandatory course match METS standards to appropriate lessons, projects, and assignments in the scope and sequence.	Still in progress. Review K-5 WCS Math curriculum guides by grade level to match METS standards to appropriate lessons, projects, and assignments in the scope and sequence.
Science	Beginning in Spring 2009 an extensive review of the K-12 science curriculum has begun. A team of instructional leaders has been engaged in the process of reviewing the new Michigan Science GLCE and METS standards. This team is being led by a newly	Move curriculum updates for board approval including plan for instructional training and acquisition of necessary curriculum materials to support classroom instruction.	Final phase of implementation and training for this area. Continued development of training plans to update instructional staff in new positions.

	placed 'curriculum specialist' in partnership with the Chief Academic Officer.		
Social Studies	Beginning in Spring 2009 an extensive review of the K-12 science curriculum has begun. A team of instructional leaders has been engaged in the process of reviewing the new Michigan Social Studies GLCE and METS standards. This team is being led by a newly placed 'curriculum specialist' in partnership with the Chief Academic Officer.	Move curriculum updates for board approval including plan for instructional training and acquisition of necessary curriculum materials to support classroom instruction, projects, and assignments in the scope and sequence.	Final phase of implementation and training for this area. Continued development of training plans to update instructional staff in new positions in the scope and sequence.

Curriculum Area	2009-2010	2010-2011	2011-2012
Elementary and Middle School Allied Arts (specials) curriculum	Beginning in Spring 2009 the Chief Academic Officer is working on a new plan for delivery of the Allied Arts (specials) programs. This process includes the updating of the current structure for delivering media/technology instruction to ensure technologically proficient 8 th graders.	Continue process.	Review status of changes and update programs as technology updates indicate need.
High School Allied Arts	Continue individual Allied Arts area meetings to review WCS curriculum guides. METS standards will be integrated as appropriate...	...continue	Review process in individual areas. Ensure that all updates meet the expectations for online learning.

Section 5 - Student Achievement

A major point of pride for our Superintendent is a Balanced Blue Ribbon Education for all WCS students. All Warren Consolidated Schools are accredited by the North Central Association of Colleges and Schools and the State of Michigan; both of which have high accreditation standards. Fifteen of Warren Consolidated Schools' twenty five schools have been awarded the Michigan Blue Ribbon Exemplary School Award. Two schools, Green Acres Elementary and Cousino High School are also "national" blue ribbon schools. A blue ribbon school is one that has achieved a high level of all-around excellence. A blue ribbon school district is one which is committed to giving students a high quality curriculum, extensive educational opportunities, and the best pathway to success in college or the workplace.

Our focus on improving student achievement is evidenced by our detailed curriculum documents. These documents may be found on our curriculum web site at <http://www.wcskids.net/curriculum/>. Each document is created, updated, and maintained by a team of teachers and administrators with expertise in the specified content area. Teacher collaboration time each week during Professional Learning Community (PLC) time enhances each teacher's depth of understanding of the current curriculum and the achievement needs of individual students.

The District has a strong commitment in the use of technology to improve curricula and instruction. The installation of Intelligent Classrooms, document cameras, projectors, student response systems (clickers), and interactive smart boards are just a few of the ways we have integrated technology into daily instruction. Instructional staff also use online software, streaming videos, and other multimedia learning materials which enhance the already rich content in the classroom.

To determine student academic progress, WCS uses both local common assessments (student report cards) and state assessment programs. The Michigan Educational Assessment Program (MEAP) is used to assess each student in grades 3-9 based on the Michigan Curriculum Framework (<http://michigan.gov/mde>). MEAP measures year-to-year student achievement for elementary and middle schools while the Michigan Merit Examination (MME) is used to measure student achievement at the high schools. Since the passing of the federal No Child Left Behind Act (NCLB) of 2001, Adequate Yearly Progress (AYP) is also used to measure academic progress for the district and each building within the district. Other indicators, such as the number of students who participate in the assessments and graduation rate for high schools, are also considered in the AYP calculation (<https://oeaa.state.mi.us/ayp/>).

Section 6 - Technology Delivery

The delivery of specialized courses, coursework and curricula are offered in many ways at WCS. Our commitment to enhance instruction and increase student achievement is evidenced in the technologies acquired for distance learning opportunities. The following are the distance resources utilized by the district to enhance teaching and learning.

Career Preparation Center

One of our shining stars is the WCS Career Preparation Center. It supports technology for WCS students in all areas of vocational education. Three labs are used by certified instructors who teach office skills, graphic arts, and computer aided design. This commitment is expected to continue during the course of this three year plan.

Internet Access

WCS currently uses Microsoft Internet Explorer and Firefox as its web browsers. Several instructional and administrative programs are available to WCS employees, students, and/or parents via the web. These programs include but are not limited to the following:

- Discovery Education Streaming
- Individual School and Program Websites
- Grolier Online Research
- Harcourt Math Online
- Kalpa Professional Development Management Software
- AESOP
- SchoolDude (Information Systems, Operations)
- Study Island
- Eduplace – ELA support online
- MeL – Michigan Electronic Library – training provided to all K-12 Media Specialists

Interactive Video

WCS utilizes the internet and interactive video to:

- Participate in video conferencing
- Create cable TV ads
- Create instructional programming
- Create interactive web-based training materials

Distance Learning Sites

WCS operates nine distance learning sites (six mobile and three fixed units). They are used to:

- Participate in interactive curriculum based distance learning activities through the MISD including Project ASK, a literature based initiative; LAPS, a DNR/Edco Publishing initiative to support the Michigan Social Studies Curriculum, and virtual Field Trips through providers such as COSI, NASA, The Center for Puppetry Arts and National Museums.
- During the 2008-2009 school year approximately 250 WCS classes participated in distance learning activities.
- Online registration for each site continues successfully.
- Online courses on site via E2020 software. (See 8 - Collaboration)

Wireless Internet Access

The District has installed wireless access points in a large portion of schools which have obtained wireless notebook carts. In addition to those buildings we have also complete wireless coverage in three of our buildings (Cousino High, Flynn Middle, and Hatherly Elementary schools).

The district will continue to move toward an entirely wireless campus because the district needs to position itself for 21st century technology. Students and staff must be able to collaborate, research, and communicate without the traditional barriers of being wired to a wall socket. This endeavor is necessary because students' post K-12 environment will require at least familiarity with wireless products and capabilities.

Technology for wireless devices continues to develop rapidly because:

1. Communication speeds are increasing.
2. Security for wireless devices is being strengthened and refined.
3. Cost of wireless devices continue to decline.

Future Distance Learning Technologies

The district plans to continue to utilize all available distance learning opportunities for all grade levels. WCS believes that these on-line learning sessions create an awareness of the world outside of the classroom and we are committed to providing as many opportunities as possible to all students in all grade levels.

Streaming Video

Vbrick communication devices have enabled the district to stream video to data network devices and our existing Radio Frequency Network (RFN), which is capable of bringing distance learning and virtual field trips to all classrooms in the district. Currently, there are six Tandberg units dedicated to this distance learning project. The district has installed a video streaming server which provides full motion video for students to conduct research and view instructional video resources directly on their computers and at their own learning pace.

Software

Purchase up-to-date software to replace old obsolete applications that are still in use by the district. This requires a significant budget to purchase and/or replace out-dated software that no longer meets the instructional needs of the district.

Section 7 - Parental Communications and Community Relations

Community relationships are a high priority at Warren Consolidated Schools. As indicated in Goal # 3 of the WCS strategic plan, schools are to be the 'hub' of the community. Parents are also actively engaged as team partners in creating and maintaining school web pages on our district website.

The WCS technology plan will be disseminated to the community through web access, formal presentation broadcasts on Cable Television, and informal presentation at school staff and parent meetings.

At WCS, technology will be effectively used to communicate with parents by:

- Providing secure links from school web pages to teacher email for communication
- Continued use of the IP phone system for voice mail.
- Continuing to support web-based resources that are accessible to students and parents at home for instructional support.
- Encouraging teachers to create electronic newsletters to send to parents.
- Composing newsletters and other communication to non-English speaking parents in their native language.
- Implementing a phone notification system that allow each schools to send voice mail messages to each student's home has been implemented in all school buildings.
- During the 2007/2008 school year, the District piloted an online program for students and parents to have access to grades online. This online grade system allows parents to become more involved in their student's achievement status. The full migration to an online grading system is projected to be completed during the 2009/2010 school year.

Parent and community member involvement includes, but is not limited to:

- Web partners for creating school web pages
- Team planning members for our School Improvement Plans
- Attending shared, monthly meetings such as PTO/Booster/Superintendent
- Partners that review the technology plan annually

Section 8 - Collaboration

WCS is very active in adult literacy projects including a Community High School located in the Butcher Community Center. The Butcher facility offers Adult Education and GED certification. This site is supported as a part of our Wide Area Network (WAN). WCS also provides space at the Butcher Community Center for technology classes taught by, and in partnership with, local vendors as enrichment classes for adults.

At Warren Consolidated Schools, E2020 will be expanded as a credit recovery effort. The E2020 program allows students to work on paced curriculum when they are unable to remain in the traditional classroom environment. The E2020 program began as a joint effort between Cousino High School and Adult Education. It has since expanded to many other schools in the district with outstanding results. The E2020 curriculum is designed to meet the standards in the Michigan Curriculum Framework. This program was approved by the MDE for off-site use with the expelled, medically challenged, and homebound students. WCS plans to continue this program through Adult Education Programs.

The district also has students utilizing the E2020 program as a unit recovery program, which helps a student review only a unit of study that they were unable to pass in class. E2020 is currently used in all three high schools (ALC) Academic Learning Centers during the school day and in the after-school program. At the high school, E2020 is used in the ALC three hours after school, Monday through Thursday, whereby students sit in a computer lab and work on recovering a loss of credit.

Section 9 - Professional Development

During the 2006/2007 and 2007/2008 school years, our Professional Staff Development (PSD) has been realigned to provide access to a common time each week for the entire staff to engage in the school improvement process. Integration of technology from both a modeling approach and solidifying the curriculum is and will continue to be our focus. During this common weekly time, individual teacher groups make decisions and requests for training to meet their needs as they relate to student achievement and their corresponding student population and curriculum. Some examples of PSD relating to technology during the common weekly times have included:

- United Video Streaming
- Web searching and resources for grant applications
- Researching current instructional practices for models of exemplary teaching
- Online assessments
- Electronic Report Cards

Professional development strategies, including contractual Professional Staff Development and Curriculum Steering Funds, Title II funds, and Professional Staff Development Plan, are in place to ensure that ALL staff and administrators are made aware of how to use available technologies to improve student learning and academic achievement. Some examples of PSD opportunities attended by our staff include, but are not limited to, the following:

- Annual Michigan Association for Computer Users in Learning (MACUL) Conference
- Macomb ISD Technology Academy
- Macomb ISD Individualized Technology Courses
- Michigan Association for Media in Education Conference

At Warren Consolidated Schools, PSD is focused on integration of technologies into curricular areas. The individual Professional Learning Communities plans for each building are the focus for PSD. Each building has allocated time each week for full-staff PSD. The budget for the district's professional development offerings is outlined in [Appendix B](#). Michigan Department of Education Technology Curriculum Standards has been disseminated throughout the district and was firmly embedded into all district curriculum pacing guides during the 2006-2008 school years (See Section 4 above).

Periodically, a comprehensive instructional technology survey is completed by the instructional employees. For the purpose of the survey, all areas of technology were reviewed by the District Technology Committee whereby a plan was created to address the highest needs as indicated by the survey results. This survey will continue to be administered to teachers as needed to reset the goals for each year and to review the progress of obtaining the district goals and each building's goals.

A two track approach developed and implemented during the previous three year technology plan, will continue to be developed and implemented during the course of this plan.

First, the district determines the overriding goals for technology training based on the survey results for each school year. The goals for the 2008/09 are:

- Internet based home communication (email, web pages, online grade report access)
- Integrate Pro Training (training plan to be provided by the Associate Superintendent for Instruction)
- United Streaming Video training, instruction, and technical support
- Kidspiration and Inspiration concept mapping to support an increase in achievement district wide in the area of writing (a need as indicated by the high stakes assessment MEAP).

Second, each building uses the survey results to create a year by year building level plan. Each media specialist/sysop meets with their building administrator during September of each school year and reviews the individual building survey results by grade level. A project plan is then created and implemented to close any gaps in the instructional levels of the building's staff.

The progress of these project plans are evaluated by the district's Technology Committee at bi-monthly district technology meetings. The Technology Committee is comprised of two central office administrators, five building administrators, four media specialists, one special education representative, and one district web coordinator [Appendix C](#).

Appendix G contains a copy of a 2009/2010 technology plan for one of our elementary schools.

Section 10 - Supporting Resources

Warren Consolidated Schools employs numerous resources to ensure the successful use of technology available to students, teachers, and staff.

District Website

At WCS, websites have been created to provide the district and community with general information about the district's educational offerings. The district's curriculum website allows teachers, staff, parents, students, and the community with curriculum-specific information about the various programs within the district. A separate informational web site is maintained at each school in the district. A parent trainer works cooperatively with building teams in many locations to ensure training and updating in a timely manner.

District Policies

District policies and guidelines have been implemented to ensure proper and effective use of technology. These policies/guidelines include: internet usage, general computer, email, and telephone system (voicemail) usage. In addition to Warren Consolidated School policies, manuals and electronic materials are available to all staff through the building/district website. The District Policies that support current technology project implementation include, but are not limited to:

- 9111 – Telephone Communications
- 2131 – Instructional Goals
- 7540 – Computer and Technology Networks
- 7540.1 – Technology Privacy

On-Line Resources

In addition to United Video Streaming, instructional, training, and administrative software is available to all staff. The instructional, training, and administrative software includes but is not limited to:

- Microsoft Office along with online training resources
- Inspiration/Kidspiration
- Typin's Cool Typing/Microtype/Type to Learn
- Harcourt Math Suite that includes:
 - Testing Components to allow teachers to pre and post test students in math.
 - Multimedia components from Edmark that allows teachers to direct instruction in current topics to the appropriate technology.
- World Book, a multimedia encyclopedia.
- E2020
- Resource Pro CD, support for the social studies curriculum.
- Prentice Hall Presentation Pro CD, support for the social studies curriculum.
- Social Studies Skills tutor CD
- Passport to the World CD, support for the social studies curriculum
- Test Wiz
- Woodcock-Munoz Scoring Software
- Subscriptions to Grolier Online and Harcourt Math Online.

ISD Training and Support

Support from the Macomb Intermediate School District (MISD) is utilized in the areas of training and distance learning. WCS teachers and paraprofessionals are offered opportunities to attend training at the MISD while MISD consultants are frequently asked to supply on-site training. Video lending is also provided to all teachers via the MISD collection. Funds are budgeted yearly to provide this service.

Section 11 - Infrastructure, Hardware, Technical Support, and Software

Infrastructure Needs/Technical Specification, and Design

Fiber Wide Area Network (WAN)

Several years ago, WCS installed a private fiber WAN throughout our 35 square mile boundaries. This WAN connects all of our 31 schools, support buildings, and satellite classrooms. The fiber is wired in a star format with the administration building being the hub. This structure is stable and expected to remain intact and operational throughout the duration of this three year plan. ([Appendix D](#))

Data Systems

The district has 134 Extreme network switches. We have a Black Diamond at the core and Alpine switch/router at each building Main Distribution Framework (MDF) with Summit 24/48 in each wiring closet at the network edge. All buildings are connected with 1 GB communications links. Each wiring closet is connected with a 1 GB connection to the main MDF in building. All edge ports are 100 MB switched. All routing is being performed in the MDF core switching.

The Voice/Video/Data traffic all ride on different Virtual Local Area Networks (VLANS) to control prioritization and security. We also have a fiber 1 GB connection to our ISD who maintains an IBM AS400 on which our finance/payroll/personnel data is stored and also serves as our Internet Service Provider (ISP).

Classroom Equipment

Each elementary school classroom has 6 network ports, which are designed to be the point of instruction. Each elementary building has one computer lab with at least 28 computers and a laser printer. The secondary classrooms typically have one network port for instructional use. Each middle school building has 3 computer labs with 34 computers. There are a minimum of six labs in each of our 3 high schools. The remaining two special/technical schools have several computers labs within each building for instructional use.

Wireless Access

Beginning in the previous three year technology plan and continuing during this three year plan, the district is moving to a wireless mobile environment. Due to the amount of expenses and limited bandwidth, this has been a slow migration. The majority of our schools currently have mobile laptop labs. That number is expected to increase during the life of this plan.

Computers

The district currently has approximately 4200 Intel based computers. This gives the district about a 3.5:1 student to computer ratio. All computers in the district are on a 7 year replacement schedule. New computers undergo system testing prior to deployment. We then use that image to deploy all other workstations. All other equipment must adhere to strict specifications that must be documented prior to issuing a purchase order. We have tested and confirmed interoperability of these specifications within our environment. We review and update these specifications on a routine basis.

Video

We utilize two pair of our fiber network to transmit analog video within the district. The ability to centrally schedule, control, and broadcast video throughout each classroom is inherent in all our buildings. This service provides each teacher with the ability to simultaneously utilize several devices to present, in a fully multi-media format, any lesson plan approved by the district. This ability has been implemented district wide.

Telephone Communications

Continued support will be provided for the IP phone system installed during the course of our previous three year technology plan. This IP phone system has drastically reduced our recurring charges to the local phone company by centralizing high capacity shared phone lines at a central site. It has also greatly improved the function and features currently used with our analog phone system. Voice mail, inter-classroom, and building communication are simpler to use, utilizes our existing fiber network, and “rides” on the same cable as our data network. A few analog lines are still installed at each building for use during emergency situations. We also have isolated voice traffic for prioritization and security by using multiple Virtual Local Area Networks (VLANS).

File Servers

The District has installed a fiber attached Storage Area Network (SAN) which is connected to five clustered file servers. Full redundancy is in place to provide for 99.999% uptime. The remaining servers are used in a project/specialized application (CD servers, SQL, WEB, E-MAIL., etc). Each file server relating to server operations are handled by our internal staff.

Distance Learning on Data Network

We have three distance learning labs; one in each of our three high schools. We utilize these labs to provide low enrollment courses to a small number of students at different schools. We also have six ‘roving’ video conferencing devices. We prefer to move the equipment to the students instead of moving the students to the equipment. This has maximized student instructional time and enhanced the educational experience. It is expected that this equipment will meet our distance learning needs during the term of this plan.

Software

The district has a wide variety of both network and stand-alone based applications. We also have many CD based applications for research and curriculum objectives. All areas of learning have some form of software based instruction. (See Section 10 – Supporting Resources)

Technical Support

Warren Consolidated Schools has recognized the need for a highly trained staff to install and maintain the existing infrastructure, ensure that all systems are seamlessly integrated, and technology questions are answered in a timely manner. We have a full time staff of seven Integrated Technicians, one programmer, one entry level technician, one repair technician, and two administrative personnel. The Information Systems Department has installed a work order tracking system that is very user friendly and highly effective in resolving problems quickly and efficiently. Teachers and staff can access this support help via phone or through the SchoolDude call reporting system. This provides teachers with an opportunity for immediate resolution of problems or concerns. This plan is supported in the budget for the duration of this three year plan.

E-mail

Each staff member and student has access to the network, Internet. All staff and some students have access to district installed and maintained e-mail.

Consortium Services

The district, as a member of the Macomb ISD Technology Consortium, will utilize internet access and telecommunications services provided through this Consortium to support its mission. The Consortium will seek E-Rate funding discounts to provide internet access and telecommunications services to its members. The Internet Access acquired by the Consortium and delivered to each member district through the Macomb County fiber wide area network will provide appropriate throughput, latency, and reliability to meet each member district's educational services needs.

The telecommunications services to be acquired by the Consortium will include Digital Transmissions Services, including but not limited to, Integrated Services Digital Network (ISDN) PRI circuits that will be used to enable distance-learning experiences for member districts. Some, if not all, of the ISDN PRI circuits to be acquired will be from the Sprint ISDN Virtual Private Network (VPN) service, which facilitates communications among other school districts and educational institutions (colleges, universities, etc.) who are also members of the Sprint ISDN - VPN.

Future Technology Needs

Conference Calling

Over the last two technology plans, the district has committed itself to improve parent communications. As part of that continuing effort, WCS will install a phone conferencing system that allows parents to communicate in a group environment without traveling to the meeting location.

Student Online Learning & Professional Staff Development

In an effort to meet the needs of students to learn outside of the traditional classroom setting and the on-going need for staff professional development, WCS is planning to install an interactive web based on-line learning system (webinar). This new webinar system will allow students and staff to interact in real time with a presenter's computer located anywhere that has an Internet connection.

Data Warehouse

The district is currently using a data warehouse system which is housed through our Intermediate School District (Macomb ISD). The system is temporarily being used as an entry into a permanent data warehouse system. This permanent data warehouse system is currently under review and is expected to be in full operation in the 2009-2010 school year.

District Calendars

The district is in the process of implementing a district-wide calendar system. This system will act as a "one stop" calendar which will list every event within the district. The district will have the ability to filter out specific events and dates, if desired.

Intelligent Classrooms

Warren Consolidated Schools has always put a high priority on acquiring new technology, which has proved to enhance the student learning experience. As technology changes, we continuously obtain new technology and pilot it in several classrooms to determine if the equipment does indeed help students learn and provides for an environment which is conducive to learning as efficiently as possible.

Accordingly, WCS has installed 12 “intelligent” classrooms with new technology and we are currently evaluating each piece of equipment to determine the impact on teaching and learning. As we determine what equipment has proven to enhance technology, we use available resources to install that technology in as many classrooms as possible. Some of the equipment already tested is: interactive white boards, document cameras, ceiling mounted projectors, student response systems (clickers), and surround sound audio systems.

Power School

In the 2009/2010 school year, the district will implement and deploy a new student accounting system. This new system has several modules outside of basic student accounting which will aid in the day to day curriculum assignments in each classroom.

Once the PowerSchool system is implemented and deployed, each teacher will have their own online page which will have a list of student assignments that have been given and what new assignments will be given in the future. The pages will also have embedded links which will aid each student in accomplishing their school work. The system also houses a parent’s page which will allow each parent to view their student’s individual work, grades for each project, marking period grades, attendance, and discipline, if the district chooses to activate these features.

Secure Employee Intranet

Over the last few years, the district has developed a staff intranet suite of applications. These applications were developed to save time and costs by putting pay stubs, timesheets, and expense report online. This system also allows staff members to fill out all district forms and submit them in an electronic format. In an environment of shrinking budgets and less available time, this system will assist the district in reducing administrative overhead costs and improve services; thus, staff members can concentrate more on student programs and academic achievement.

School Bus Camera Systems

The district is in the process of installing camera systems in each school bus. These systems will enhance the existing security systems and personnel deployed both inside and outside of the schools. This is an ongoing program which the district is fully committed to achieving.

Technology Interoperability

The District requires that each technology purchase order is reviewed to comply with WCS equipment standards. This is done to ensure that all equipment purchased is aligned to this standard which will ensure full interoperability. The District is committed to a reasonable replacement/upgrade of this equipment as funds become available.

Section 12 - Increase Access

WCS has an ongoing commitment to meeting the needs of all our students and staff. The individuals with Disabilities Education Act of 1990 (IDEA), P.L. 101-476 and the reauthorization of 1997, require that assistive technology devices and services be made available to a child with a disability if required as part of the child's IEP. IDEA states that assistive technology must be considered for every child with an IEP.

The WCS Assistive Technology Staff is continuing to design and deliver training in the area of A.T. for all special education staff. In addition, they work with the general education staff to create an awareness of Universal Design for Learning (UDL) in which instructional materials and activities are designed with multiple approaches to meet the needs of diverse learners.

Students enrolled in high-need/high-poverty schools are provided additional resources to improve student achievement through the implementation of programs such as:

- New Century software is being used as support for ELL students at five Title I buildings.
- Ellis Software is being used and was upgraded in Winter of 2006 in our high schools.
- Study Island online tutorial program for targeted instructional intervention as related to high stakes assessment such as the MEAP.
- Leap Pad technology continues to be supported for reading intervention at elementary locations. This equipment is an excellent marriage of simple technology and literacy. Students in elementary and middle school will benefit from the reinforcing of literacy skills through this electronic book technology. This technology will be used primarily in our classrooms with high ELL populations.
- Alpha Smarts system improves typing and story/writing skills
- Rosetta Stone is used in schools where English is not the primary home language. This program reinforces English speaking skills and helps adapt students to their local culture and environment.

Section 13 - Funding and Budget

At Warren Consolidated Schools, it is an ongoing commitment to provide technology funding at levels that are sustainable, fiscally responsible, and based on the needs of our schools. For a detailed budget for this three year technology plan, see [Appendix B](#).

Section 14 - Coordination of Resources

Warren Consolidated Schools is committed to providing the best educational opportunities available for all our students. As part of our commitment, Warren Consolidated Schools seeks to maximize its funding opportunities wherever and whenever possible. Even though the majority of technology funding is provided by general funds, Warren Consolidated Schools leverages funding from a variety of other sources such as grants and USF E-Rate.

Grants

WCS intends to make grants a priority during the term of this plan. We have accessed grant monies in the past and plan to accelerate this in the future. During the 2008/2009 school year, we hired a full time person to seek out and apply for grant funding.

USF E-Rate

WCS has applied for and will continue applying for funding through the USF E-Rate Program, which is a federal program created to provide discount reimbursements and assist most schools and libraries with obtaining affordable technologies, including telecommunications and internet access. The discounts are based on an individual schools' enrollment in the National School Lunch program. Warren Consolidated Schools anticipates obtaining approximately \$74,000 annual average reimbursement from the E-Rate program for telecommunication services and internet access. For a complete list of E-rate requested products and services see [Appendix F](#).

Section 15 - Evaluation

Warren Consolidated Schools has a process in place to evaluate the extent to which the district is achieving the goals stated in this Educational Technology Plan. In addition to evaluating our curriculum integration and student achievement goals, the Technology Committee will evaluate this Educational Technology Plan on an annual basis to assess the success of achieving our overall technology goals and determine any necessary revisions or corrective action.

Curriculum/Technology Integration

Periodically, a comprehensive instructional technology survey will be completed by the instructional employees. For the purpose of the survey, all areas of technology are reviewed by the district Technology Committee whereby a plan was created to address the highest needs as indicated by the survey results. This survey will continue to be administered to teachers to reset the PSD training goals and to review the progress of obtaining the district's technology goals and each building's goals.

Each building will use the survey results to create a year by year building level plan. Each building technology contact will meet with their building administrator and review the individual building survey results by grade level. A plan will be created and projects implemented to close gaps in the instructional levels of the staff. A sample building plan is included in Section 9 – Professional Staff Development.

The progress of these projects will be evaluated at the district technology meetings conducted by our committee members, [Appendix C](#). This review process will include the progress of integrating the METs standards into the WCS Curriculum Guides as outlined in Section 4 – Curriculum Integration and Section 5 – Student Achievement. It is also the responsibility of this committee to work with the individual buildings to ensure they have the resources to meet each goal.

Student Achievement

Even though MEAP scores are used by the state to measure student progress, Warren Consolidated Schools is responsible for assuring that all students reach Adequate Yearly Progress (AYP) benchmarks required by NCLB. (<http://www.michigan.gov/mde>) By June 2010, a process will also be in place for students to compile technology-integrated projects/portfolios from year to year. The student compilations will show each student's achievement progress from one grade to another.

Section 16 - Acceptable Use Policy

Warren Consolidated Schools believes that all students and staff members must adhere to a minimal set of standards relating to the appropriate and ethical use of technology. Accordingly, the district has a system in place to ensure safety and appropriate use of all our technological resources.

CIPA Compliance

Warren Consolidated School have and will continue to comply with the requirements of the Children's Internet Protection Act, as codified at 47 U.S.C. § 254(h) and (l). The district is committed to assuring the safe conduct of all students while online and has a comprehensive policy about the proper use of our technological resources. At the beginning of each school year, students and staff are made aware of the district's Acceptable Use Policies.

Filter Efforts

It is Warren Consolidated Schools' intent to preserve network bandwidth and improve network response times by limiting internet access to educational-related sites. The district filters access to the internet from objectionable and/or obscene sites with Fortigate, an internet filtering device. This ensures compliance with district Acceptable Use Policies and maintains a positive network environment for all our stakeholders.

Acceptable Use Policies

In cooperation with the district and building administrators, the acceptable use policy is monitored through the use of staff and students. The details of the district's acceptable use policy can be found in [Appendix A](#).

Appendix A - Acceptable Use Policies

Warren Consolidated Schools Acceptable Use & Internet Safety Guidelines

Scope

The acceptable use of information resources, information technology, and networks in the Warren Consolidated Schools applies to all members (employees, students and others) of the Warren Consolidated Schools community, whether at a physical Warren Consolidated Schools site or elsewhere, and refers to all information resources, whether individually controlled or shared, stand alone or networked.

Rationale and Definition

Bringing computer resources and the Internet into the classroom promotes innovation and educational excellence, and breathes new life and excitement into the educational experience.

To the extent practical, Warren Consolidated Schools has implemented technology protection measures to block or filter inappropriate material or other unauthorized forms of electronic communication out of the school setting. Specifically, as required by the Children's Internet Protection Act [Pub. L. No. 106-554 and 47 USC 254(h)] blocking shall be applied to visual/audio depictions of material deemed obscene or child pornography, unlawful activity, or to any other material deemed harmful to anyone. However, there is no guarantee that users will not find a way to access inappropriate material or misuse their time on the Internet.

In order to protect the school and reassure parents, Warren Consolidated Schools has created and implemented district-wide Acceptable Use Guidelines, or AUG. An AUG is a written agreement outlining the terms and conditions of computer, network, and Internet use. It specifically sets out acceptable and unacceptable uses, and indicates rules of behavior and access privileges. Also covered are penalties for violations of the guideline, including security violations and vandalism to the system. Everyone using the school=s computers, networks, and Internet connection will be appraised of the AUG. Additionally, it will be required that all students using a school=s computers, networks, and Internet connection will, agree to and sign an AUG. The parents/guardians of each of our students are also required to sign this AUG. This AUG will be kept on file as a legal, binding document.

User Rights and Responsibilities

Central to appropriate and responsible use of computer and information technology is the stipulation that, in general, computing resources should be used in a manner consistent with the instructional, research, administrative, and public service objectives of Warren Consolidated Schools. As members of the Warren Consolidated Schools community, all users have the responsibility to use information technology services in an effective, efficient, ethical, and legal manner.

Warren Consolidated Schools Acceptable Use & Internet Safety Guidelines

The ability to connect to the network and Internet will provide access to local, national and international sources of information and collaboration vital to intellectual inquiry in a democracy.

Network and Internet access is a privilege and not a right. In return for this access privilege, every user has the responsibility to respect and protect the rights of every other user in our community and on the Internet. Account holders (those given username and passwords) are expected to act in a responsible, ethical and legal manner. This behavior extends to any and all other networks which a user may utilize. Warren Consolidated Schools cannot and will not extend any protection to a user should he or she violate the policies of an external network.

Usage Guidelines - User Responsibilities

When you use the Warren Consolidated Schools computer network and Internet services, you accept the following specific responsibilities:

- A. To respect the privacy of other users: for example, you shall not intentionally seek information on, obtain copies of, or modify files, tapes, passwords, or other information belonging to other users or the school district. You shall not misrepresent yourself to represent others, nor shall you divulge personal data to which you have access concerning faculty, staff, or students without explicit written authorization by the appropriate authority to do any of the above.
- B. To respect the legal protection provided by copyright and licensing of programs and data: for example, you shall not make copies of a licensed computer program to avoid paying additional license fees or to share with other users.
- C. To respect the intended usage of resources: The district=s computers and/or networks are strictly there to support the educational process. For example, you shall use only those resources (username and password, funds, transactions, data, processes, etc.) assigned to you by the Warren Consolidated Schools staff for the purposes specified, and shall not access or use other such resources unless explicitly authorized to do so by the appropriate authority. You may not use Warren Consolidated Schools resources assigned to you or others for profit-making or fund-raising activities or other personal use unless explicitly authorized to do so by the appropriate authority.
- D. To respect the intended usage of systems for electronic exchange: (such as e-mail, World Wide Web, other forms of direct communication, etc.); for example, you shall not send forged electronic mail, mail that will intimidate or harass other users, chain messages that can interfere with the efficiency of other systems, or promotional mail for profit-making purposes. Also, you shall not break into another user=s electronic mailbox or read someone else=s electronic mail without explicit authorization by the appropriate authority to do so.

Warren Consolidated Schools Acceptable Use & Internet Safety Guidelines

- E. To respect the integrity of the system or network: for example, you shall not intentionally develop or use programs, transactions, data, or processes that harass other users or infiltrate the system or damage or alter or capture the software and/or data components of a system. Alterations to any system or network software or data component shall be made only under specific instructions from authorized staff.
- F. To adhere to all general Warren Consolidated Schools policies and procedures; including, but not limited to, policies on proper use of information resources, information technology, and networks (District Policy No.7540); acquisition, use, and disposal of Warren Consolidated Schools-owned computer equipment (District Policy No.7310); use of telecommunications equipment; ethical and legal use of software; and ethical and legal use of administrative data (District Policy No.7540).

Usage Guidelines - Unacceptable Usage

Unacceptable uses of the network will result in the suspension or revoking of use of these privileges and may result in legal action being taken against the individual. Employees may be subject to discipline, up to and including discharge. Students may be subject to disciplinary action pursuant to the student code of conduct. Some examples of such unacceptable uses are:

- A. Using the network for any illegal activity, including violation of copyright or other contracts;
- B. Using the network for product advertisement, personal financial or commercial gain, or political lobbying;
- C. Degrading or disrupting equipment, software or system performance,
- D. Vandalizing or capturing the data of another user.
- E. Wastefully using finite resources;
- F. Gaining unauthorized access to resources or entities;
- G. Invading the privacy of individuals;
- H. Using an account owned by another user or allowing another user to use your account;
- I. Posting personal communications without the original author=s consent;
- J. Posting anonymous messages;
- K. Downloading, storing, printing, or distributing files or messages that are profane, obscene, or that use language that offends or tends to degrade others;
- L. Downloading, storing, printing, or distributing files or messages that contain information considered dangerous to the public at large.
- M. Violating the Content Guidelines as outlined below.
- N. Downloading of any file or data to hard drives, floppy drives, or the network without explicit authorization from the appropriate authority.

Warren Consolidated Schools Acceptable Use & Internet Safety Guidelines

Content Guidelines

Students and employees will be allowed to produce materials for electronic publication on the district network and on the Internet. Staff will monitor student produced materials to ensure compliance with content standards. The content of materials is constrained by the following restrictions:

- A. Use must be in support of education and research.
- B. No Student Directory information, or personal information about a student, employee, or others will be allowed. This includes home telephone numbers and addresses as well as information regarding the specific location of any person at any given time.
- C. All web sites must be identified by the web master=s name.
- D. Individuals in pictures, movies or sound recordings may be identified only by initials, (e.g., JQP for John Q Public). Absolutely no first or last names may appear in reference to individuals in any image, movie, or sound recording.
- E. No text, image, movie or sound that contains pornography, profanity, obscenity, or language that offends or tends to degrade others will be allowed.
- F. No use for product advertisement or political lobbying.
- G. All communications and information is the property of the school district and is subject to monitoring.
- H. No exceptions to the above statements.
- I. Staff and students may not advertise or link to their personal e-mail or personal web page.
- J. Staff and students may not establish or use personal accounts through district accessed Internet connections.

Monitoring

The district reserves the right to monitor the appropriateness of all use of technology. It shall be the responsibility of the school staff to supervisor and monitor each student's usage of the online computer network and access to the Internet in accordance with this guideline and the Children's Internet Protection Act.

Penalties for Violating the AUG

Anyone violating the Warren Consolidated Schools Acceptable Use Guidelines is subject to penalties for such actions, as governed by the Student Code of Conduct and Board Policy. These penalties include, but are not limited to: verbal or written warning, removal of access privileges, removal from computer related classes with loss of credit, suspension or expulsion, legal action, monetary reimbursement and/or termination.

The above AUG is the result of consultation and compilation from numerous sources, including: WCS existing middle and high school guidelines, Community High School Usage Policy (Ann Arbor, MI); Grosse Pointe Public Schools Internet Policy (Grosse Pointe, MI); NCDPI info Web Acceptable Use Policy (North Carolina Public Schools); U of M Proper Use of Information Resources, Information Technology, and Networks (U of M, Ann Arbor, MI); Acceptable Use Policies (Classroom Connect Newsletter, Dec. 1994/Jan. 1995 issue).

**Warren Consolidated Schools
Acceptable Use &
Internet Safety Guidelines**

I have read the Acceptable Use & Internet Safety Guidelines. I agree to follow the rules contained in this guideline. I understand that if I violate the rules, my account can be terminated, and I may face other disciplinary action.

User Name (please print)

School

User=s Signature

PARENT OR GUARDIAN SECTION

As the parent or legal guardian of the student signing above, I have read the Acceptable Use & Internet Safety Guidelines and grant my permission for my son or daughter to access the internet.

I understand that Student Directory information or personal information about my student will not be published on the internet or district sponsored web sites.

I understand that the WCS= computing resources are designed for educational purposes. I also understand that it is impossible for Warren Consolidated Schools to restrict access to all controversial materials, and I will not hold them responsible for materials acquired on the network. It is further understood that students and their parents/guardians may be held liable for violations.

Parent Name (please print)

Parent Signature _____ Date

Home Address _____ City _____ Zip

Phone

Appendix B – District Technology Budget

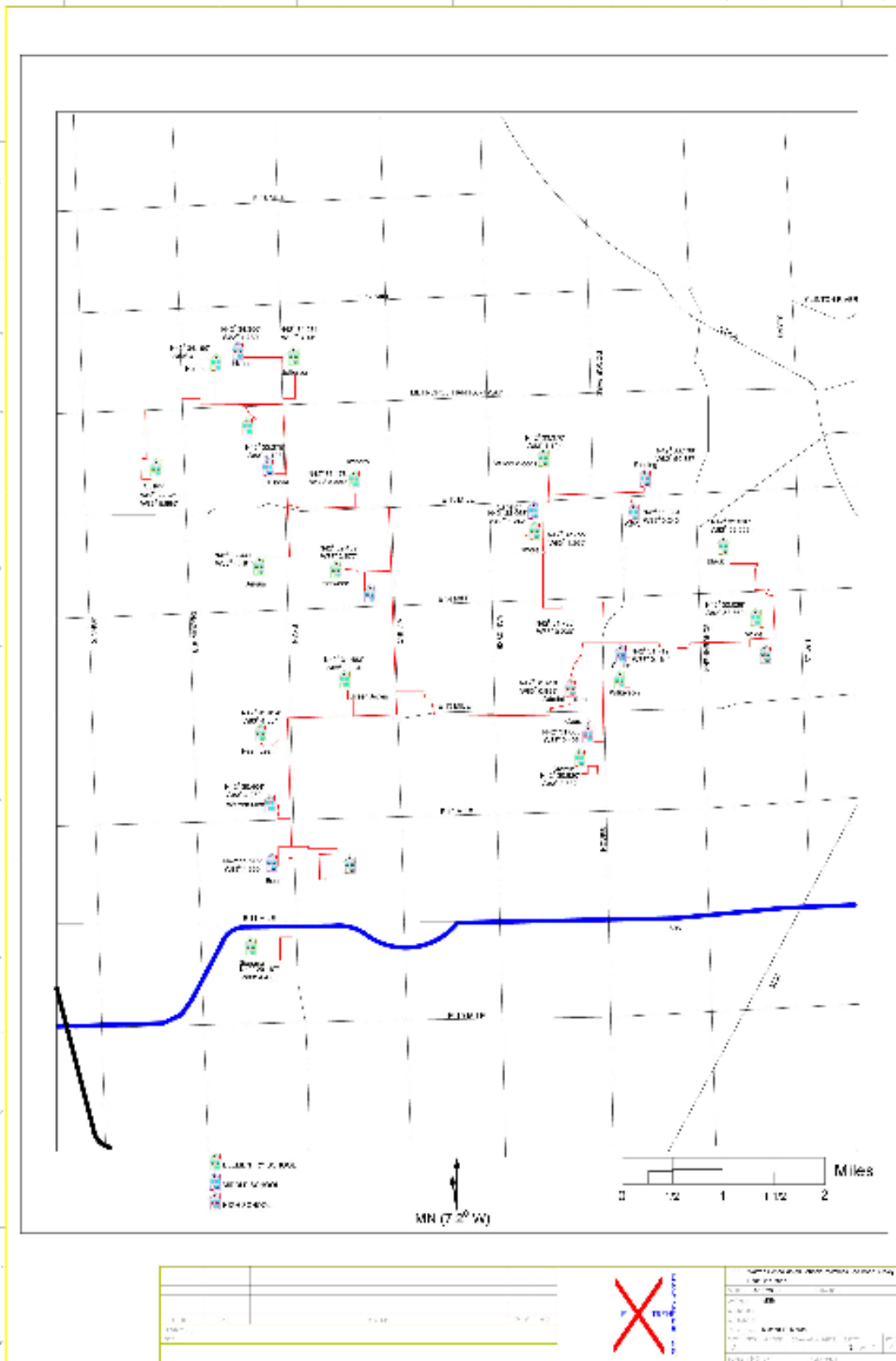
WCS Technology Plan Budget Projections			
Based on 2% Annual Increase			
	Year 1	Year 2	Year 3
	2009/2010	2010/2011	2011/2012
<u>Funding Sources</u>			
General Funds	\$1,218,243.00	\$1,242,607.86	\$1,267,460.02
E-Rate Funds	\$74,258.00	\$75,743.16	\$77,258.02
Total Funds	\$1,292,501.00	\$1,318,351.02	\$1,344,718.04
<u>Expenditures</u>			
Salaries and Benefits	\$701,590.00	\$715,621.80	\$729,934.24
Hardware and Network	\$165,450.00	\$168,759.00	\$172,134.18
Maintenance and Service	\$85,400.00	\$87,108.00	\$88,850.16
License Agreements	\$96,800.00	\$98,736.00	\$100,710.72
Software and Curriculum Support	\$79,200.00	\$80,784.00	\$82,399.68
Professional Development	\$73,561.00	\$75,032.22	\$76,532.86
Other Areas (telephony)	\$90,500.00	\$92,310.00	\$94,156.20
Total Expenditures	\$1,292,501.00	\$1,318,351.02	\$1,344,718.04

Appendix C – District Technology Committee

The purpose of our Technology Committee is to offer guidance in the implementation of the district's technology, technology literacy, and technology integration initiatives. This includes the development of district technology standards and expectations, acceptable use policies, and creation/revision of this Educational Technology Plan. Below is the list of Warren Consolidated Schools' Technology Committee members who have and will continue to update and work on this three year Educational Technology Plan.

NAME	TITLE
Brian Walmsley	Chief Academic Officer
Karen Hill	Executive Dir of Elementary Education
Dan Milbeck	Director of Information Technology
Jean Wenner	Media Specialist/SYSOP
Melissa Hardy	Elementary Principal
Steve Bigelow	Middle School Principal
Jennifer Davis	Elementary School Principal
Dawn Jenkins	Teacher
Terri Laws	Public Relation Specialist (web master)
Brad Martin	High School Principal
Leeann Scicluna	Fillmore Elementary Parent

Appendix D - Wide Area Network



Appendix E – Computer Replacement Schedule

Warren Consolidated Schools
Projected Desktop Computer Replacement Schedule

December 15, 2008

BLDG	HP 7800	Dell GX740	HP 5100	Dell GX620	Dell GX270	Dell GX260	Total
Admin Total	9	2	15	21	52	18	117
Angus Total	10		3	0	42	23	78
Beer Total	25		38	68	19	15	165
Black Total	5	1	3	25	20	34	88
Butcher Total	17	24	29	45	74	77	266
Carleton Total	20		36	35	70	35	196
Carter Total	17		37	42	56	18	170
CHD Total	0	1	0	0	19	0	20
Cousino Total	34	34	37	76	124	66	371
CPC Total	18		15	8	62	79	182
Cromie Total	15	8	4	0	42	44	113
Fillmore Total	7	1	30	10	18	31	97
Flynn Total	26	5	37	65	33	19	185
Green Acres Total	2	1	3	0	44	41	91
Grissom Total	17		36	31	55	17	156
Harwood Total	5	1	3	0	39	32	80
Hatherly Total	9	1	3	0	43	30	86
Holden Total	4	1	2	0	42	30	79
Immaculate Conception Pfromm	26		0	0	0	0	26
Jefferson Total	7	1	4	27	18	26	83
Lean Total	5	1	3	27	27	34	97
Service Total	5		2	17	11	3	38
shhs Total	30		33	95	158	84	400
Siersma Total	5	1	3	5	80	5	99
St Anne Total	48		0	0	0	0	48
Susick Total	4	1	3	0	41	28	77
Warner Total	5	15	0	5	24	7	56
Wilde Total	5	1	4	28	19	38	95
Wilkerson Total	3	1	3	30	26	32	95
Willow Woods Total	3	1	3	0	42	40	89
WMHS Total	34	15	33	72	125	54	333
Grand Total	420	117	422	732	1428	960	4079

Appendix F – USF E-Rate Requested Products and Services

Warren Consolidated Schools USF E-RATE REQUESTED PRODUCTS AND SERVICES (E-Rate FY09: 2009-10)

TELECOMMUNICATIONS SERVICES

Basic Telephone Service

The Warren Consolidated Schools accepted bids for basic telephone service and tariff for (5) PRI lines, (800) DID lines, and (161) Centrex telephone lines. This service is for the time period from July 1, 2009 through June 30, 2010.

Long Distance Service

The Warren Consolidated Schools accepted bids for intralata and interlata long distance toll service for (800) DID lines, and (161) Centrex telephone lines. This service is for the time period from July 1, 2009 through June 30, 2010.

Cellular Phone Service

The Warren Consolidated School District accepted Bids for cellular telephone service for minimum of (29) cellular phones that include direct connect services within the District. This service is for the time period from July 1, 2009 through June 30, 2010.

Pager Service

The Warren Consolidated School District accepted bids for pager service for minimum of (63) pagers with district-wide frequencies. This service is for the time period from July 1, 2009 through June 30, 2010.

INTERNET ACCESS

Wireless Internet Access

The Warren Consolidated School District accepted bids for Wireless Internet Access service for minimum of (9) wireless telephones. This service is for the time period from July 1, 2009 through June 30, 2010.

INTERNAL CONNECTIONS

Network Cabling

The Warren Consolidated School District accepted bids for network cabling for a total of (39) data drops listed in the table below. This service is for the time period July 1, 2009 through June 30, 2010.

BUILDING LOCATION	DESCRIPTION	QTY
Butcher Community Education Center	Cat6 Data Lines from MDF/IDF to Various Locations	39

Network Electronics

The Warren Consolidated School District accepted bids for network electronic equipment listed in the table below. The District considered alternate proposals provided the equipment was compatible with the District's existing network. This service is for the time period from July 1, 2009 through June 30, 2010.

BUILDING	DESCRIPTION	QTY
Butcher Community Education Center	Extreme (or equivalent) Summit X450A-24 Port	1
	Extreme (or equivalent) Summit X250E-48 Port	12
	Extreme (or equivalent) SX GBIC 10051	12

Wireless Network Electronics

The Warren Consolidated School District accepted bids for wireless network electronic equipment listed in the table below. All access points must be cabled back to the buildings head end and IDF locations using Cat6 cabling and include Extreme (or equivalent) Power on Ethernet switches (PoE) at the head-end/IDF locations supplied by the service provider. The District considered alternate proposals provided the equipment was compatible with the District’s existing network. This service is for the time period from July 1, 2009 through June 30, 2010.

BUILDING	SQUARE FEET OF COVERAGE	DESCRIPTION	QTY
Butcher Community Education Center	115,735	Extreme Summit WM20 LAN Controller	1
		Extreme Altitude 450-2	As Needed

Network Operating System

The Warren Consolidated School District accepted bids for Novell NetWare, ZENworks for desktops, Clustering and GroupWise. This software is for minimum of (15,446) students. This service is for the time period from July 1, 2009 through June 30, 2010.

Appendix G – Sample School Technology Plan for 2009/2010

Green Acres Elementary School Technology Plan 2009-2010

Green Acres Vision Statement:

Green Acres Elementary School – where parents, students, and staff work together to plant the seeds of lifelong learning.

Integration

In alignment with the State of Michigan GLCE's and technology standards, the staff at Green Acres Elementary School places a high priority on the integration of technology into student learning every day. Green Acres Elementary School is substantially equipped with both hardware and software to meet the needs of the of the school learning community.

The school is equipped with

- 30 station computer lab with a teacher presentation station including and LCD projector, Smart Board, and document camera.
- Network laser printer in the computer lab.
- Minimum of one student computer, one teacher computer, network access to the lab laser printer and to the Konica copier for large print jobs, access to a head-end resource room with cable, VHS, and DVD technology, and a student listening center in each classroom.
- Media center with a color laser printer, seven student stations, one circulation station, and one teacher station. Video conferencing equipment is available centrally with IP access to most sites with conferencing opportunities.
- Filtered internet access at all stations in the building.
- Integrated multimedia projection and network access in Café for large group instruction and events.
- 21st Century technology including document cameras, LCD projectors, integrated white boards, and Senteo quiz systems in two 5th grade classrooms.
- Presentation capability to all classroom monitors for announcements throughout the day.
- Digital cameras for each classroom.
- Digital video camera for school wide use.
- Two carts of Alpha Smart Neo's to support writing.
- Network software including Kidspiration/Inspiration, Photostory, Type to Learn, Microsoft Word/Excel/Powerpoint, Follett Book Search.
- Computerized assessment reporting with Report Card Maker.

Students are instructed in the use and integration of technology in a co-teaching environment with the classroom teacher and the media specialist as well as individually in the classroom setting.

Professional Development:

Green Acres Elementary School will participate in staff development activities and plan strategies for integration throughout the 2009-2010 school year as follows:

- Utilize web resources available from the Macomb Intermediate School District Instructional Technology staff to locate and schedule training sessions on current programs and equipment.
- 10 teachers will attend the Macomb Intermediate School District Summer Technology Academy in August 2009 with training follow-up in November 2009. The focus of this academy will be the use of digital images and video in instruction.
- All staff will review the current structure and content of the school web-page in September 2009. The page will be updated based on findings by the media specialist.
- Interested staff members will receive training and support for creating their own classroom web page in the Fall of 2009.
- Continued in-service as subs and time are available in use of digital cameras, digital video cameras, and document cameras.
- PLC groups will review the National Technology Standards and the Michigan Technology standards for their grade level.
- Reinforce internet safety and computer use expectations.
- Teachers will keep a professional log in Kalpa of their training events and hours.
- Continued in-service in the instructional use of Discovery Education for streaming instructional videos.
- Peer training is continually available to all staff members in a variety of areas of expertise.

Assessment and Evaluation:

The technology plan will be continually evaluated by the NCA SIP team and grade level PLC teams. Each grade level PLC team reviews their individual grade level plan for computer lab usage annually (sample attached). The teams review their current PLC goals and revise their grade level plan to ensure integration.

Continuous evaluation will maintain an up-to-date technology integration plan:

- Maintain a computer lab usage schedule.
- Maintain grade level lab usage plans.
- Teacher lesson plans (reviewed by administrator) will reflect integration of technology instruction.
- Reviewing student products and current research for future needs regarding technology enhancements and upgrades.
- AUG will be supported by having students and parents sign internet safety and usage guidelines.