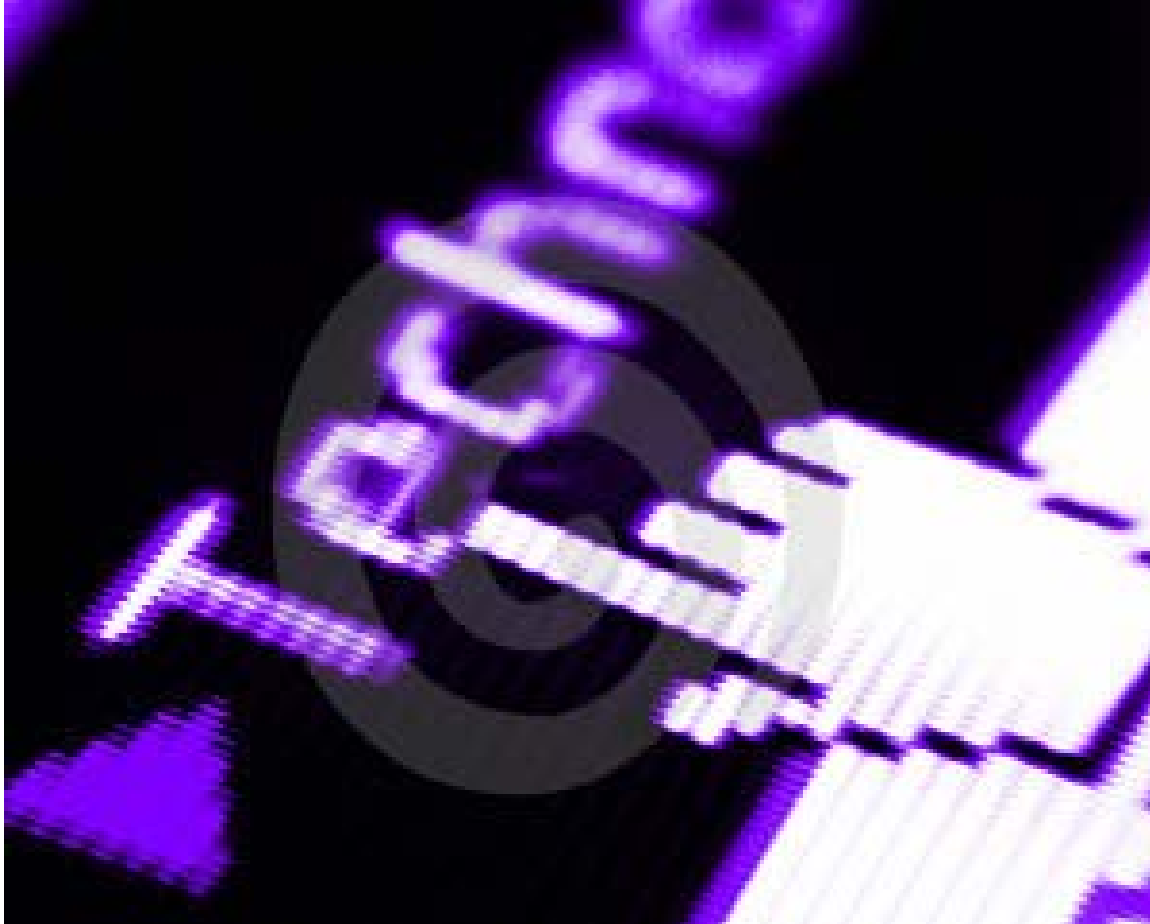


Charlotte Public Schools

Technology Plan



2009-2012

Board Adopted: March 9, 2009

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TECHNOLOGY PLAN SUMMARY SHEET

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Draft created version and updates: August, 2008

Years covered by this plan: July 2009 – June 2012

Date of next state review (3 years from start date): June 2012

Intermediate School District: Eaton Intermediate School District

URL for Technology Plan: <http://www.charlottenet.org/technology/techplan.pdf>

PREFACE

The District Technology Committee (DTC) is responsible for developing and implementing the District Technology Long-Range Plan; developing and recommending policies and procedures that govern the use of technology in educational settings; training and professional development; as well as the integration of technology into teaching, learning, and staff productivity. Charlotte Public Schools is fortunate to have a dedicated group of staff and community members who continually commit time and effort to create a plan that will benefit our students.

This District Technology Long-Range Plan communicates to our school community our vision that Charlotte Public Schools is committed to providing resources for and access to technology for teaching, learning, and productivity. The additional commitment to training and support provides the conditions for success in this endeavor.

The District Technology Plan evolves yearly through our efforts to evaluate the present status of the district with respect to the effective use of technology in service learning. The DTC committee examines the best vital knowledge in technology literacy to drive and reshape the district's practices, structures, relationships, and beliefs. The resulting document serves the district well by guiding the use of technology and our development as a learning organization of self-directed quality contributors. The development and ongoing improvement of this Technology Plan reflects the efforts of staff, parents, students, business and community members. Input from all stakeholders assures a solid technology plan that identifies real needs.

The plan will be implemented with available grant revenue, Universal Service Fund reimbursement, and a planned annual general fund-operating budget. Although this plan is an overall blueprint for action and a desired implementation schedule, the budgeting process will influence the time-line and success of implementation. This plan will be evaluated annually in a comprehensive manner by the District Technology Committee as a basis for making revisions and adjustments to the long-range plan. Implementation and benefits of this Technology Plan progress each year and can be observed in classrooms across the district.

The Charlotte Board of Education adopted this District Technology Plan as submitted by the DTC. In doing so, the Board acknowledged the importance of the vision, goals, and objectives of the plan that will continue to drive the development of a technologically literate student body and work force. The Board of Education extends its gratitude to the members of the committee for their leadership, dedication, and commitment to the future of Charlotte Public Schools.

DISTRICT PROFILE

Charlotte Public Schools

Charlotte Public Schools is located in the City of Charlotte and serves surrounding townships in northeastern Eaton County Michigan. The district is comprised of four elementary schools, one middle school, one high school, and an alternative education program. The district covers an area of 124 square miles with a total enrollment of approximately 3,200 students. The passage of recent millages have provided funds for renovations and new structures including; building a new middle school (2002), a new Aquatic Center (2004), and Performing Arts Center (2004).

Approximately two-hundred-ten teachers and fifteen administrators work in eight buildings to support the educational needs of our K-12 students. Our student population represents all socio-economic levels with a free-reduced lunch population of 34%.

Charlotte is the county seat with a population of approximately 8,500 supporting a variety of businesses and residents. Charlotte's geographic location is in close proximity to three major universities, several private and community colleges, the State Capitol, and the State of Michigan Historical Museum. It provides access to a variety of cultural and employment opportunities for its residents.

School Buildings

Names and addresses of school buildings in the district:

- *Charlotte High School (9-12)*
378 State Street
- *Charlotte Middle School (5-8)*
1068 Carlisle Highway
- *Charlotte Public Schools*
Learning Center (14-20 yrs.)
1699 Lansing Road, Suite 6, 7 & 8
- *Galewood Elementary (K-4)*
512 E. Lovett Street
- *Leora Weymouth Elementary (K-4)*
346 State Street
- *Parkview Elementary (K-4)*
301 E. Kalamo Highway
- *Washington Elementary (K-4)*
525 High Street



DISTRICT TECHNOLOGY PLANNING TEAM

Chair: Jennifer Varney

Name	Position
Anderson, Karen*	High School, Media Specialist
Balko, Ida	Technology Service Coordinator
Bennett, Jeff	High School, Lab Manager
Bourland, Larry	Middle School Teacher
Brown, Wayne*	Middle School, Principal
Braden, Sue*	Computer Software Work Leader
Budd, John	Middle School, Lab Manager
Burdick, Sharee*	High School, Assistant Principal
Byam, Amy	Weymouth Elementary Teacher
Caudell, Kim	Parkview Elementary School, Principal
Dudley, Julie*	Washington Elementary Teacher
Edwards, Therese	Galewood Elementary School, Principal
Haston, Jeff	Middle School, Teacher
Hipskind, Nancy	Charlotte Public Schools, Superintendent
Rosekrans, Mark*	Associate Superintendent for Operations
Sovey, Don	Associate Superintendent for Business
Stewart, Jim	Elementary Technology Specialist/Media Teacher
Sylvia, Tracy	Galewood Elementary Teacher
Taylor, Mary	Associate Superintendent for Curriculum
Terry, Teri	Middle School, Media Specialist
Vagts, Tim	Weymouth Elementary School Principal
VanSyckle, Tina*	High School, Teacher
Varney, Jennifer	Director of Technology/Media
Whalen-Montei, Jamie	Elementary Media Specialist/Tech Teacher
Woods, Karen	Special Education, Director
*Denotes that committee member is also a parent with students currently in the district.	

The District Technology Committee (DTC) membership consists of representatives from each district building, including teachers, administrators, technology support staff, and community members. Membership is updated at the start of each school year with recruitment if necessary. We are fortunate to have had a very stable membership over the years which add to its credibility and effectiveness since members of this committee are knowledgeable about policies, practices, history, and expectations for all.

The DTC is responsible for developing and implementing the District Technology Long-Range Plan; developing and recommending policies and procedures that govern the use of technology in educational settings; training and professional development; as well as the integration of technology into teaching, learning, and staff productivity.

VISION, MISSION, AND GOALS OF CHARLOTTE PUBLIC SCHOOLS

Vision

We will be a premier learning organization, fostering relationships with school & community to develop contributing & productive citizens.

Mission

Working together with you to prepare all students to become successful citizens who can meet tomorrow's challenges.

Charlotte Public Schools 2009 - 2012 District Goals

- 1) **High quality, guaranteed curriculum and assessments supported by rigorous assignments**
 - **Train staff in high quality instruction delivery**
- 2) **Increase achievement and success for all students**
 - **High quality guaranteed curriculum & common assessments**
- 3) **Continued partnerships with townships, city, hospital, chamber, service clubs and other community organizations**
 - **Collaborate with townships, city, hospital, chamber, service clubs and other community organizations**
- 4) **Failure is not an option – supporting all students**
 - **Develop systems at all levels and demand that failure is not an option – staff, students, parents**
- 5) **Safe & orderly environment**
 - **Teach consistent behavior expectations K-12 with consistent age-appropriate consequences**

It is the intention of Charlotte Public Schools to develop curriculum, employ instructional practices and assessment systems aligned with each school and district improvement plans. We strive to be consistent with the State Board of Education approved curriculum content standards and then insure that professional development is provided so that all educators will have the skills necessary to effectively instruct all students.

Furthermore, Charlotte Public Schools intends to identify and implement, through analysis of data, appropriate improvement strategies that will include the integration of technology to increase student performance.

The use of technology in today's society is a critical component of all facets of business, education, and government operations. The job market has undergone a massive transformation from an industrial-based to an information-based economy. Not only is rapid growth occurring in the technology sector, but more and more jobs increasingly require some level of technological skill. It is increasingly evident that computer skills are essential to future job success. An estimated 60% of all jobs require skills with technology.

To that end, Charlotte Public Schools, giving its commitment in its mission statement “ to prepare students to become successful citizens who can meet tomorrow’s challenges” and its dedication to mastery of process skills, including creative and critical thinking, decision-making and problem solving, will in the most natural way involve the integration of technological skills across curricular areas. Thus, Charlotte Public Schools’ technology plan is integral and vital to the success of the overall vision, mission, and goals for the district as a whole - educational staff and students K-12.

Slogan

“Your partner in preparing for tomorrow.”

TECHNOLOGY PLAN INTRODUCTION

Background of our technology planning initiative

Charlotte Public Schools has had a strong District Technology Committee since the 1990-91 school year. This committee has consistently addressed issues, policies, and procedures for technology access, use, and integration. This current long-range district technology plan will be the sixth adopted and approved by the board over the past 18 years.

Consistent membership, including parents, along with strong leadership, has provided the focus, direction, and support for implementing technology in all district buildings that allows employees to be productive and students and teachers to work in technologically rich environments that support teaching and learning. A well defined District Long-Range Technology Plan articulated our technological needs to our community so that more than \$6 million approved by voters in 1999 and 2002 provided a technology infrastructure, computers, and equipment for a voice, video, and data system that is second to none.

The District Technology Plan is posted on the district website. Copies are provided to all District Technology committee members, District administrators and are available for circulation from each building Media Center for staff and parents. All requests for a personal copy are honored.

Overview

The vision that defines and drives our goals and objectives is that technology will assist students and staff to be self-directed and collaborative learners in the “inquiry-centered classroom of the future.” The district also intends to provide instructional and administrative tools to improve productivity, collect data, and to continue communication with parents and the community at large. Our goals and objectives are designed to assist the Charlotte School District achieve its District Mission. Technology will be used to assist in the attainment of district-adopted goals and objectives across the curriculum.

The goals and objectives in this plan will allow the District to implement technology that will inspire, enlighten, and excite students and staff. This plan will insure that technology is available to all students and staff, and that technology becomes the modern “pencil.” The aim is to INFUSE technology into the instructional and administrative areas within the district. Only our imagination will limit our achievements.

The following guidelines will aid in meeting the goals of this plan:

1. Curriculum and student needs will drive the allocation and use of technology.
2. Staff training will be a priority.
3. Community access to the schools and technology systems will be facilitated.
4. Safety and security in the facilities will be continually evaluated.

5. A plan for the continuous purchase, placement, use, evaluation, and replacement of technology will be designed and implemented based on curriculum, instructional, and administrative assessments.

District technologies initially and annually will be inventoried to determine their use and functionality. The district uses available funds, from all sources, to maintain, update, improve, and replace technology as necessary.

Classroom, school, and district administrative functions, including internal and external communications, will be executed with the highest degree of efficiency, accuracy, and timeliness through the use of technology. An internal on-line program for media center and computer lab scheduling, requests for technology support and maintenance work orders, technology training schedules, and a Technology Use Handbook, is available on district computers and is used to create efficiency and improve productivity. Web-based options that offer opportunities for parents and staff to communicate about classroom activities, follow the progress of their student, and access informational resources is provided as a service of the district, including on-line payment for food service and child care. The district phone system is used to communicate with parents and colleagues regarding school activities, programs, homework, and other important information related to student needs and teacher expectations.

VISION, MISSION, AND GOALS OF THE TECHNOLOGY PLAN

Vision

Preparing 21st century learners

Mission

Working together with staff and students to improve teaching and learning using technology.

Charlotte Public Schools 2009-2012 Technology Goals

The Charlotte School District envisions Technology as a tool to assist students and staff to become self-directed and collaborative learners, able to ask questions, seek answers, and apply the information found. “Learning to LEARN through Technology” is the means by which information will be conveyed as we move into the information age. The intent of the Charlotte School District is not just to teach technology, but instead to use it to provide students with a fundamental resource, which targets critical skills and knowledge, required for success in the complex society of today and tomorrow. Self-directed and collaborative learners will understand basic technology operations and effectively utilize them to:

- Communicate
- Search for information
- Gather information
- Collaborate with peers and authorities
- Analyze information and make decisions
- Compile results

The intent of “Learning to LEARN through Technology” is to provide access, professional development, and opportunity to integrate technology as a means for students to meet the expectations of the district K-12 curriculum. Technology as a tool will help staff improve instructional practices, communication, and administration of the classroom, school, and district.

Slogan

“Learning to LEARN through technology.”

TECHNOLOGY GOALS 2009-2012

To achieve our mission and vision, the District is committed to:

1. Analyze data to align curriculum assessment and instruction through the use of technology.
2. Provide Wide Area Network to enhance learning and communication equitably to community, parents, staff and students.
3. Provide training to assist in technology integration to support curriculum, based on building specific needs for all staff.
4. Provide an integrated technology curriculum through all subject areas in alignment with state and national standards.
5. Educate and provide appropriate expectations for using a technology-rich environment.

Technology Goals

Goal #1 The District is committed to:

Analyze data to align curriculum assessment and instruction through the use of technology.

CURRICULUM INTEGRATION

- Demonstrate and provide curriculum integration materials for staff; such as Curriculum Crafter, Study Island and Data Director (yearly)
- Sharing effective practices and innovation in technology integration to facilitate alignment of curriculum assessment and instruction (yearly)
- Create and review common assessments throughout the district (yearly)
- Professional development opportunities for continued use of technologies providing data analysis (yearly)

STUDENT ACHIEVEMENT

- Common assessments will be utilized to measure alignment of curriculum with state standards
- Demonstrate specific technologies that improve student achievement related to curriculum area and grade level

TECHNOLOGY DELIVERY

- Will use data warehousing (Data Director) to analyze common assessment data to align curriculum with the Michigan Merit Core Curriculum, Grade Level Content Expectations and local curriculum standards
- Curriculum alignment software (Curriculum Crafter) will be utilized to help align curriculum and import existing common assessment to provide teaching tools to align to state standards
- Standardized testing preparation software (Study Island) will be provided to all elementary and middle school students for practice and support of state standards

PARENTAL COMMUNICATIONS/COMMUNITY RELATIONS

- Elementary and middle school parents are able to access Study Island materials from home
- Opportunities will be provided to use computer labs and other resources for instruction and literacy
- State standards and expectations are posted on the school website
- Results of student achievement will be presented to parents, administration, curriculum council and board of education regularly

COLLABORATION

- Encourage the development of “in-house” experts of software and hardware tools to analyze data
- Work with the Intermediate School District to provide information or training as necessary
- Publish documents that assist in understanding technology tools that are available to align curriculum and assessments
- Provide opportunities in Professional Learning Communities to analyze information from common and state assessments

Goal #2: The District is committed to:

Provide Wide Area Network to enhance learning and communication equitably to community, parents, staff and students.

CURRICULUM INTEGRATION

- Increased Internet Access for all web based applications/activities including online courses (beginning: 2010/2011)
- Increased speed, capacity and availability of content during instructional time using video streaming (beginning: 2010/2011)
- Teachers will investigate and demonstrate the use of technology resources to support instructional strategies that address different learning styles of students (yearly)
- Teachers will investigate and demonstrate the use of technology resources to support instructional strategies that incorporate cooperative learning activities (yearly)
- Educators will access curriculum materials from a variety of sources including the Internet, and incorporate them into their presentation of curriculum (yearly)

STUDENT ACHIEVEMENT

- Students will use technology to access and analyze information from a variety of sources
- Students will use the wide-area networks to access text and video information for individual and group research projects
- Students will have equal access to instructional uses of the computers within their perspective buildings

TECHNOLOGY DELIVERY

- Enable easy, seamless, secure connection to network from all access points
- Ensure the wide area networks provide adequate connectivity
- Investigate new technologies that will enhance curriculum delivery

PARENTAL COMMUNICATIONS AND COMMUNITY RELATIONS

- Continue to offer training opportunities with available technologies through the Community Education office
- Educate through local news affiliates and website; the impact of the Wide Area Network

COLLABORATION

- Charlotte Public Schools will continue to work with Eaton Intermediate School district in utilizing at least 45 MB shared Internet Access
- Charlotte Public Schools will work with Eaton Intermediate School district in sharing a 1GB Point to Point Access

Goal #3 The District is committed to:

Training is provided to assist in technology integration to support curriculum based on building specific needs for all staff.

CURRICULUM INTEGRATION

- Demonstrate and model the use of available technologies for staff (as needed basis)
- Provide formal and informal training opportunities where teachers plan the use of technology to augment the curriculum and classroom practices (as needed basis)
- Assist teachers as they create lessons that integrate technology into critical thinking and problem solving activities (yearly)
- Support them in the use of technology with all students regardless of past experience or individual abilities (yearly)

STUDENT ACHIEVEMENT

- Demonstrate specific technologies that improve student achievement related to curriculum area and grade level
- Provide training on specific technologies related to curriculum area and grade level
- Support teachers as they use these specific technologies to improve student achievement
- MEAP scores will assist us in determining the effectiveness of the integration of technology in the curriculum
- Evaluate eighth grade performance on the NCLB Technology Literacy Assessment and make necessary adjustments in K-8 curriculum
- Evaluate ninth-twelfth grade performance in specific courses that require technology competency

TECHNOLOGY DELIVERY

- We will look at present scores of the 8th grade technology assessment to determine how we are doing (Spring 2009)
- Target areas that need enhancements and develop methods to improve them (Fall of 2009)
- Implement the findings beginning the Fall/Winter 2009
- Check on the MEAP scores yearly and evaluate and make necessary changes for staff training.

PARENTAL COMMUNICATIONS/COMMUNITY RELATIONS

- Support the use of e-mail, voice mail, and on-line resources, such as Blackboard or teacher web-pages to communicate with parents and the community.
- Provide on-going training in the use of the web-based grade book, attendance reporting, and other features of parental web-access to student information.
- Assist staff in creating materials for placement on the district web page.

COLLABORATION

- Regional Tech Academy
- REMC trainings
- Community Education offerings

Goal 4: The District is committed to:

Providing an integrated technology curriculum through all subject areas in alignment with state and national standards.

The guidelines from the Michigan Educational Technology Plan and state standardized testing requirements guide us in evaluation, implementation and improvement for an integrated K-12 curriculum at Charlotte Public Schools.

CURRICULUM INTEGRATION

- The METS checklist is used to review alignment of curriculum (yearly)
- Technology ability components are identified through the teacher evaluation process (yearly)
- Professional development options are provided to assist in technology integration to supplement curriculum (yearly)
- K-12 United Streaming provides teachers another curriculum presentation option (yearly)
- The high school Vocational Education Curriculum provides students options to develop real-world technical skills

STUDENT ACHIEVEMENT

- All 8th grade students participate in an 8th grade technology literacy assessment for technology, yearly
- Technology literacy is used to help with writing and math problem solving skills
- MOS certification is provided at the high school level to assess student achievement for the MS Office Suite
- Basic technology skills are observed and evaluated to assess individual achievement throughout the year

TECHNOLOGY DELIVERY

- Blackboard allows student and teacher to communicate outside the classroom through email, assignments, instructions provided and evaluation
- On-line courses (MVHS) provide high school students the opportunity to take advanced courses or make up credit
- Plato is offered for basic skill recovery and credit recovery for our Learning Center (alternative education program)
- Study Island is provided at the elementary and middle school to enhance curriculum and technology integration
- Family Access is provided to parents and students from the school web page that allows communication regarding grades, attendance, lunch accounts and scheduling
- Career Cruising (high school & middle school) is an on-line vocational assessment to explore career pathways
- Access to technologies both BASIC and ADVANCED (as defined on page 29) will be made available to classrooms as required by curriculum

- Data Director will be used as the district's data warehousing package in order to analyze data and the impact of hardware and/or software provided (yearly)
- Curriculum Crafter will be used to assist in aligning curriculum and common assessments (yearly)

PARENTAL COMMUNICATIONS/COMMUNITY RELATIONS

- The District Technology Plan will be posted on the Charlotte Public School's website
- On-line information is provided by all buildings to keep families informed of weekly, monthly and yearly activities
- Family Access is a link through our web page that provides communication between family members and individual schools concerning grades, attendance, lunch accounts and scheduling
- E-Funds is provided to parents for on-line payments for use of food service; child care and athletic fees
- Community links are provided on the Charlotte Public Schools web page
- Email addresses are posted for all Charlotte Public School staff; by building
- There is a combination of teacher, parent and administrative representation on the District Technology Committee

COLLABORATION

- Charlotte Public Schools does not have a formal ESL (English as a Second Language) class, but have software from Renaissance Learning to support any student needs
- Charlotte Public Schools works with the Eaton County Jail Facility to help adults achieve their academic requirements; however, we do not have a formal, on-site Adult Education program
- The GED certification program is organized through our alternative education facility and at this time Plato Learning is used to assist in GED preparation

Goal 5: The District is committed to:

Educate and provide appropriate expectations for using a technology-rich environment.

CURRICULUM INTEGRATION

- Demonstrate and model the use of available technologies (yearly)
- Provide formal and informal training opportunities where teachers plan the use of technology to enhance the curriculum and classroom practices (yearly)
- Assist teachers as they create lessons that integrate technology into critical thinking and problem solving activities (yearly)
- Have K-12 Media Specialists and Technology Teachers assist General Education teachers in the use and integration of technology (yearly)

STUDENT ACHIEVEMENT

- Demonstrate specific technologies that improve student achievement related to curriculum area and grade level
- Provide training on specific technologies related to curriculum area and grade level
- Support teachers as they use these specific technologies to improve student achievement
- MEAP scores will assist us in determining the effectiveness of the integration of technology in the curriculum
- Evaluate eighth grade performance on the Technology Literacy Assessment and make necessary adjustments in K-8 curriculum.
- Evaluate ninth-twelfth grade performance in specific courses that require technology competency

TECHNOLOGY DELIVERY

- Look at how staff uses technology to determine how well we are integrating what is currently available
- Target areas and technologies that should be used more effectively and develop a plan to provide training and support
- Implement the plan to increase technology integration
- Evaluate student assessments after course completion and make necessary adjustments for staff training for each semester

PARENTAL COMMUNICATIONS/COMMUNITY RELATIONS

- Support the use of e-mail, voice mail, and on-line resources, such as Blackboard and Family Access, to communicate with parents and the community
- Provide continuous training in the use of the web-based grade book, attendance reporting and other features of parental web-access to student information
- Assist staff in creating materials for placement on the district web page

COLLABORATION

- Regional Technology Academy
- REMC trainings
- Community Education offerings

RESOURCES

1. Local teachers as trainers for technology skill and technology integration classes which are offered at various dates and times to accommodate all staff schedules including a multi-day June and August Technology Camp
2. Summer training in collaboration with Eaton Intermediate School District for staff to enhance skills and develop projects for classroom integration. Examples include Data Director and the Regional Technology Academy
3. Administrative and teacher participation in Professional Learning Communities
4. Attendance at conferences for specific subject area and technology to share with staff members in building
5. Attendance at REMC workshops
6. Michigan Virtual University (MIVU) for on-line training opportunities, 24 hours a day, seven days a week
7. PLATO learning training opportunities when needed
8. MOS certification testing available to staff and community members as well as students
9. Data Director training provided to district or building specific training
10. Study Island training provided on an as needed basis
11. Blackboard local and state training opportunities provided on an annual basis
12. Curriculum Crafter training opportunities provided on an annual basis

Goals for Teachers and Students

Today, both staff and students have a wide range of technology accessible for class and individual use as needed for teaching and learning. Though integration of technology improves with each year, we are still in the process of fully integrating the use of technology. It is obvious that both staff and students are more productive when they use technology; however, the effectiveness of using technology on student achievement is an area that we will continue to evaluate.

(These goals are based on the Michigan Technology Content Standards.)

Evaluation

The District Technology Committee (DTC) will provide oversight and on-going evaluation of the Technology Plan implementation. This committee has been and continues to be responsible for the development of policies, procedures, and practices that support and direct the implementation of the Plan's goals and activities. Through their leadership and input, Charlotte Schools has been able to intentionally move forward in the planning and implementation outlined in the current Technology Plan with Technology Bond funds, grants, and general fund dollars.

Evaluation includes but is not limited to:

- attention to detail when implementing technology purchases, procedures, and policies to evaluate their effectiveness
- requests for feed back from end users both formally (survey) and informally
- DTC member discussion on the effectiveness of new implementations based on personal experiences and input from staff and students
- identification of training needs and plans to meet those needs
- observation of teacher and student ability to integrate the use of new technologies in teaching and learning
- DTC member determination on whether implementation of Technology Plan components help students and teachers reach the major goals of the Technology Plan as well as the District goals for teachers and students
- K-12 technology curriculum alignment with Grade Level Content Expectations (GLCE'S) and Michigan Merit Curriculum (MMC).

TECHNOLOGY PLAN AND DISTRICT SCHOOL IMPROVEMENT COORDINATION

The District Technology Committee, including district staff and parents, have worked together to develop a technology plan that will continue to meet the needs stated in the District Mission, **“Working together with you to prepare all students to become successful citizens who can meet tomorrow’s challenges.”** In the 21st century, a necessity for success will be the knowledge and skills to deal with a variety of technologies. Our technology mission is not only aligned with our district mission, but dedicates our efforts to include our staff and students in becoming self-directed and collaborative learners. In addition, technology is a means to enable students to develop other essential academic skills and knowledge. The District Technology Committee is aware that it is imperative to develop a technology plan that will lay the foundation and serve as a guide in meeting the technological challenges of the future.

The District School Improvement Team meets periodically throughout the school year to coordinate the improvement efforts of the individual schools, monitor district goals, and provide training to members of the team. The District School Improvement Team and building school improvement teams develop curriculum, instructional practices, and assessment systems that are aligned to the Grade Level Content Expectations & Michigan Merit Curriculum in all areas. Professional development opportunities are provided so that all educators will have the skills necessary to effectively instruct all students.

The district’s plan for improvement in core academic areas is as follows:

Goal #1:

Students will meet or exceed district standards and age/developmentally appropriate benchmarks for academic competency in English/ Language Arts.

Goal #2:

Students will meet or exceed district standards and age/developmentally appropriate benchmarks for academic competency in Mathematics.

Goal #3:

Students will meet or exceed district standards and age/developmentally appropriate benchmarks for academic competency in Science.

Goal #4:

Students will meet or exceed district standards and age/developmentally appropriate benchmarks for academic competency in Social Studies.

Goal #5:

Increase opportunities for parents to be involved in the partnership of educating students.

Goal #6:

Collaborate with staff, parents and community to engage in programs and activities focused toward improving the academic performance of all students and accelerating the improvement of low achieving groups

Additionally, each school’s individual Student Achievement Goals are developed based on the support they will provide to the district Student Achievement Goals.

INFRASTRUCTURE

With the passage of a 6 million dollar technology bond in the fall of 1999 and in 2002, Charlotte Public Schools was privileged to be able to upgrade several facilities. The upgrades were also planned adequately for with replacement schedules that are revisited on a yearly basis to make adequate decisions on purchases for the district.

The upgrades to our facilities included: adequate conditioned power to technology locations; lightning protection to the buildings; temperature and humidity control for head-end rooms and electronics cabinets; security for rooms housing infrastructure electronics; video security monitoring at certain locations; and handicap accessibility to technologies.

Today every building classroom and office has full access to a voice, video, and data infrastructure that provides district resources and the Internet with a 1gigabyte (ggb) backbone to each building over a fiber network. Each location has multiple data/voice connections available to accommodate growth and future needs. Each computer has the ability to connect to the infrastructure with 100 Megabyte (mgb) speeds.

A consistent Novell network is managed throughout the district by a certified CNE who manages access, file sharing, file back-up, content filtering, e-mail and Internet access. Currently the district uses the Microsoft Office Suite, Windows, and Firefox Browser as the district standards for productivity applications.

Every building has modern computer labs for student use as well as multi-media computers and large-screen data monitors available in classrooms to support teaching and learning activities. Teachers use these computers for electronic attendance, grades and access to student demographic information as well as the myriad of resources provided on the district data network and the Internet. Local and network printers and copiers are provided in each building to make it convenient for staff and students to create and produce teaching resources and materials.

Each classroom and office has access to a telephone that is part of our own PBX, which includes a voice mail system.

Every building classroom has access to a district (and building) video network that allows for two-way broadcasting and reception of district broadcasts and local cable TV programming. In-district video conferencing has been used for teacher collaboration, staff development, and joint meetings between buildings. Out-of-district video conferencing is available at our local Intermediate School District. Classrooms have available VCR/DVD players and large-screen monitors (and building data projectors) so resources can be used when needed to support classroom-learning activities. The ability to provide building video bulletins with up-to-the-minute information on activities, menus, and important information for staff and students is available in each building. This video system is also used to communicate a building message to visitors.

All K-12 classrooms have room amplification equipment that is used daily. Handheld devices are used in K-12th grade classrooms with success in the district. Alphasmart keyboards are used effectively in K-4 buildings, with some also in the Middle School to support keyboarding instruction and language arts activities.

Charlotte Public Schools is participating in the Eaton Intermediate School District WAN consortium leased wide area network which provides internet access to all of our schools. A committee of participating consortium members is meeting to determine how to maximize the benefits of these services for our students. As these are determined, the district realizes that addendums to this plan may be necessary.

Technology is used by Charlotte Public Schools to provide access for staff, students, and community members to a wide range of appropriate and/or relevant information. Upon successful completion of the consortium agreement with Eaton Intermediate School District, Charlotte Public Schools will have the benefits of utilizing a Wide Area Network. This Network will provide the district with increased bandwidth, curricular opportunities and administrative options.

Staff users on our district network have access (as needed) to:

*Other opportunities as provided by the integration of the Wide Area Network (TBD)

- Student Demographic Information
- Electronic Gradebook
- Electronic Attendance
- Budget management information
- Data Warehousing
- E-mail and the Internet (assigned by District System Administrator)
- Electronic database that supports curriculum
- Video streaming of curricular resource

Students have access (as needed) to:

*Other opportunities as provided by the integration of the Wide Area Network (TBD)

- Electronic databases that support curriculum
- High School vocational technology courses
- Internet resources
- GENnet online courses
- Lansing Community College courses
- Michigan Virtual High School courses
- Microsoft Office Specialist Certification

Community members have access to a district web page (www.charlottenet.org) that includes:

*Other opportunities as provided by the integration of the Wide Area Network (TBD)

- Athletic Events
- Community Education Scheduling
- District calendar information
- District Special Events
- Electronic data bases
- Links to governmental agencies and educational resources
- Newsletters
- Performing Arts Center venues
- Staff e-mail and phone extensions
- Parent resources

Parents have ADDITIONAL access to:

- Student information such as grading, attendance, scheduling, etc.
- Food service accounts
- Emergency parent contact information
- Immunization records
- Efunts – on line activity payment

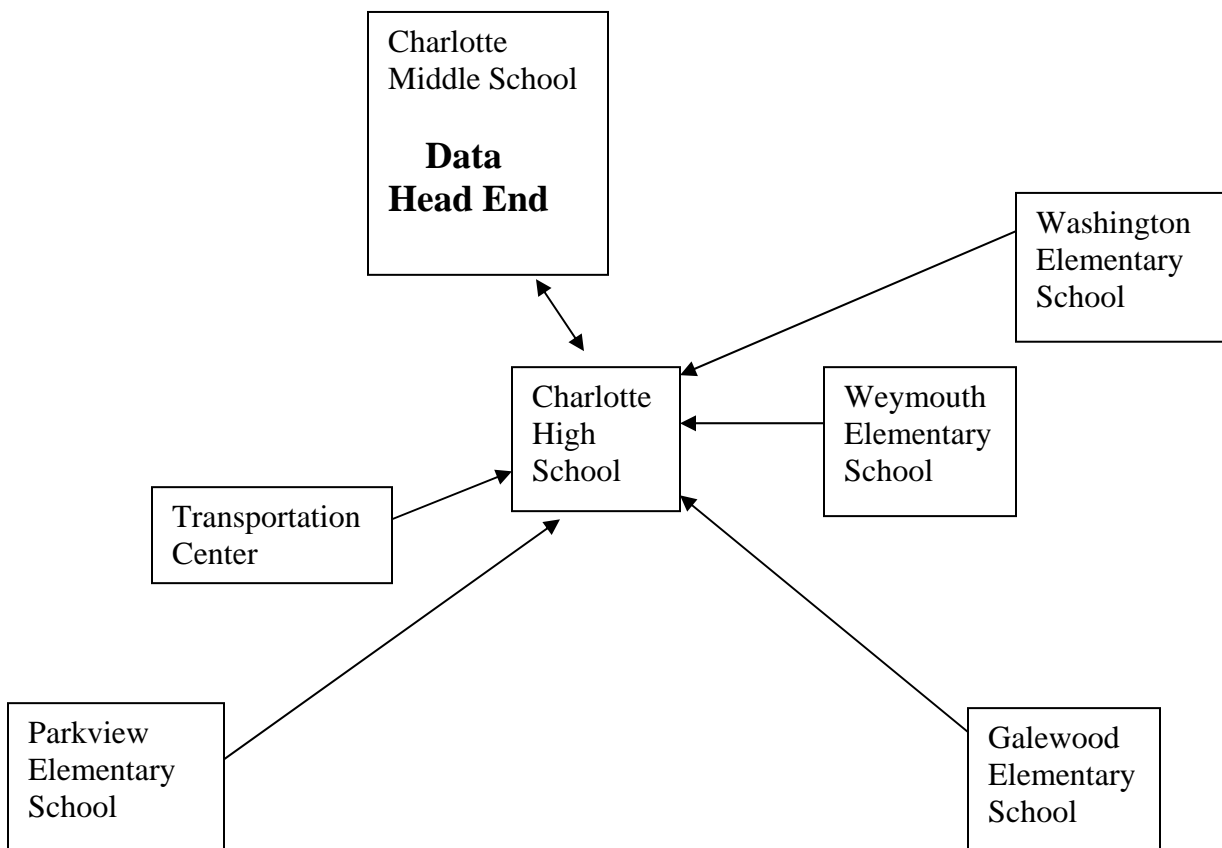
Charlotte Public Schools Data Infrastructure Network Design

Implemented
2006

The district data network head end is located in the Middle School. Each remote building connects at gigabit speed to the High School via fiber, which is jumpered over to the layer 3 core switch in the Middle School. From the building's data cabinet, connections into each classroom, office, media center, modular classroom, and lab are made at 100mb.

The data network provides access to the Internet, administrative software (student demographic information, grading and attendance, curriculum support on-line resources, media center card catalog), and a district e-mail program. Internet access is filtered to comply with provisions of the Child Internet Protection Act.

Currently, we have a 6mgb connection to the Internet with hopes of increases with support of the WAN project through the EISD.

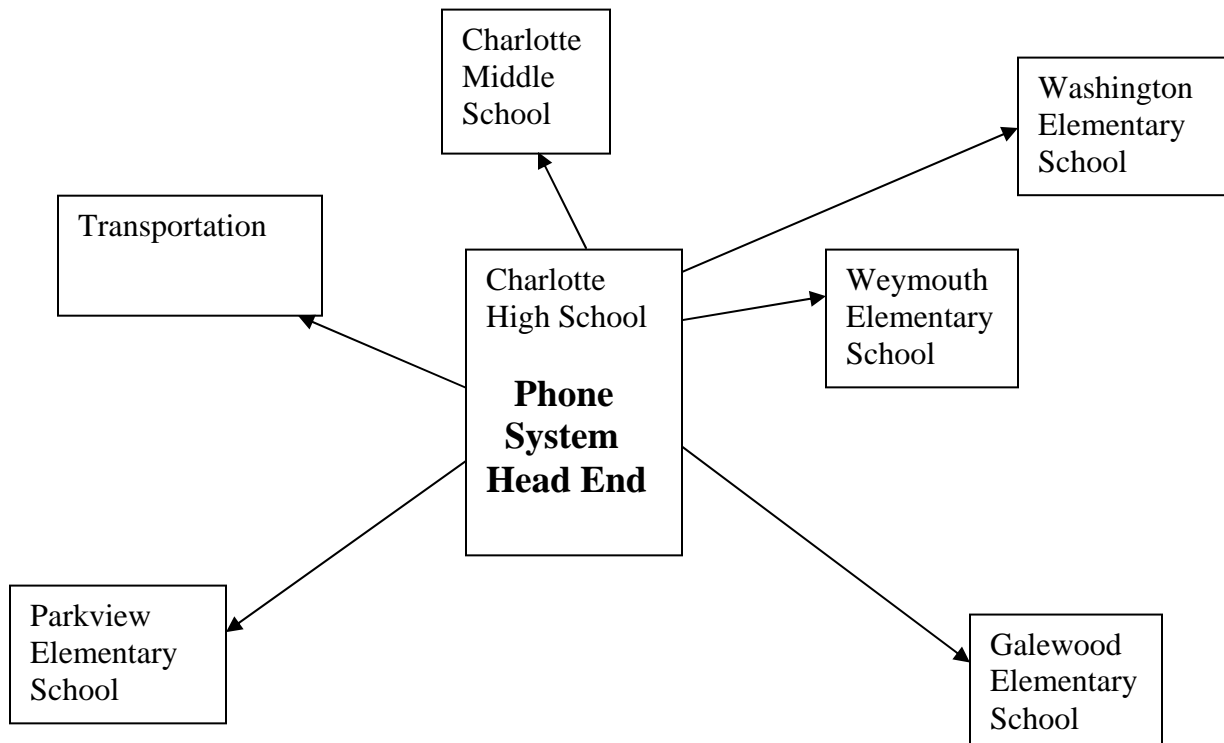


Phone/PBX Infrastructure Network Design

Implemented
2006

The district phone PBX head end is located in the High School. Each remote building connects to the High School via fiber and contains a remote shelf which will allow emergency phone service at specific locations should fiber connectivity be lost for some reason. Phones are available in every office, classroom, media center, portables and lab.

The phone system includes voice mail for all district employees. Callers into the district will hear a brief list of options for service that enables a prompt response to callers. Published main numbers into office areas allows for customer friendly direct-inward-dialing.



Video Infrastructure Network Design

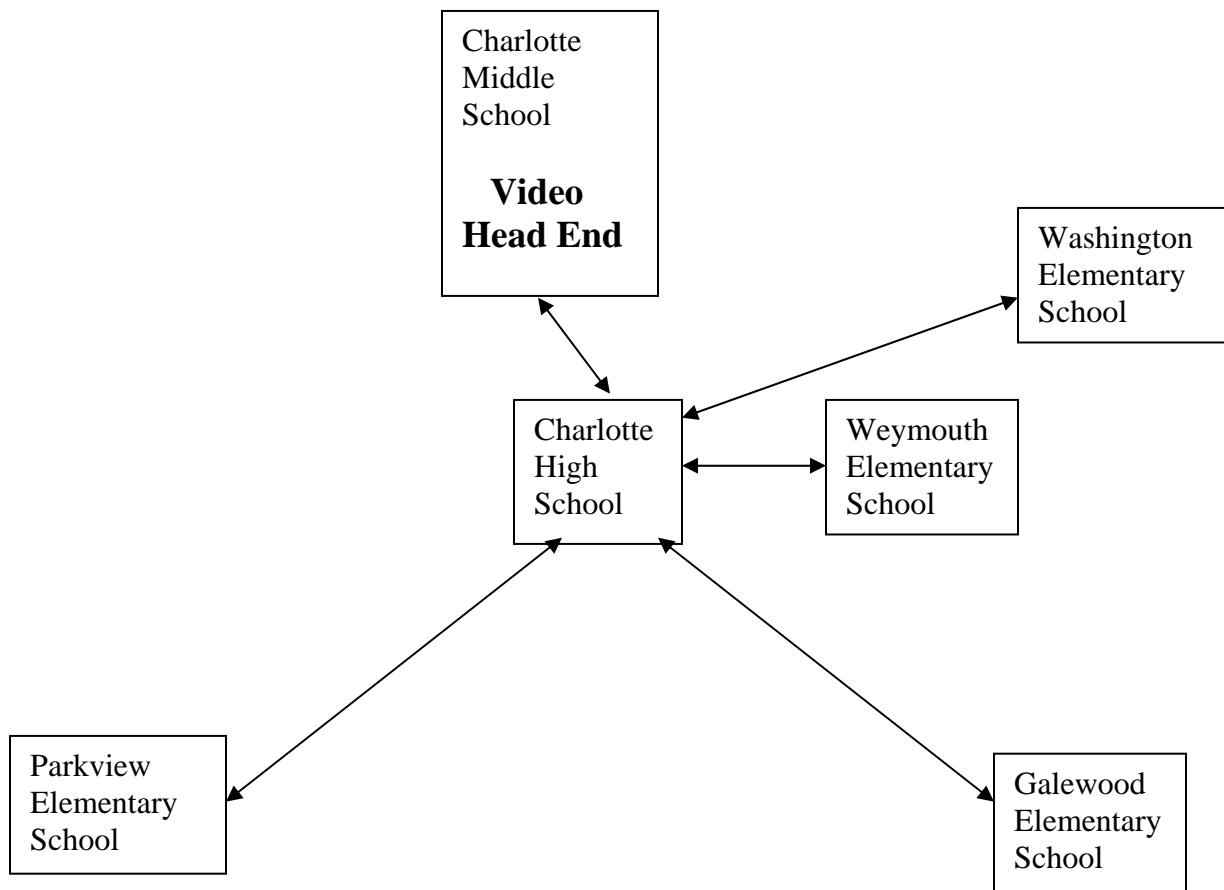
Implemented

2006

The district video head end is located in the Middle School. Each building connects to the High School via fiber and is jumpered to the Middle School for access to a complete two-way video broadcast system. Video connections are available in each building's administrative office, classroom, media center, and lab. Use of a specially designed and equipped "cam cart" allows video broadcasting from any video access location in the district. Each administrative office, classroom, media center and lab have a permanently located television/data monitor. Access to internal video broadcasts and building daily bulletin information is provided.

From the district head end in the Middle School, access to educational programming on cable television and district degenerated video broadcasts is provided to all offices, classrooms, media centers, portable classrooms and labs.

Access to satellite broadcasts, video conferences, and virtual field trips are available through our local Intermediate School District.



HARDWARE STANDARDS and SERVICES

The District Technology Committee categorized technology within the District as either Basic Technology or Advanced Technology.

Basic Technology is defined as the technology that is supplied to all classrooms (a classroom being defined as a place of instruction).

Advanced Technology is other technology that is made available in the building to further support instruction.

This list will be reviewed annually.

Basic Technology	Advanced Technology
Calculators (some rooms) Computer Printer Data/Video Monitor Listening Station (ELE) Multi-Media Computer Overhead Projector Projection Screen Room Amplification Telephone VCR/DVD Players <u>Services</u> District Video Network Educational Cable Access INTERNET access Network Access	Audio CD ROM Player CD Audio Player CD/DVD burners Classroom Performance System Data Projector Digital Camera Digital Scientific Probes Digital Video Cameras Digital Visualizers Fax Machine Graphing Calculator Laptops Laser Disc Player Laser Printer MIDI Interface Keyboard MP3 Players Network copier PDA's Scan Pen Scanner Smartboard / E-beam 35 mm Camera Video Cameras Video Editing Equipment Video Projector Video Security System

TECHNOLOGY CURRICULUM SOFTWARE STANDARDS

The District Technology Committee believes the following software standards need to be set for Charlotte Public Schools. The exact level may differ by the student, class, or the curriculum.

Skill Area	Status	Elementary School K-2	Elementary School 3-4	Middle School Beginner 5/6	Middle School 7/8	High School Beginner	High School Advanced	Staff/ Administration.
Word Processing	Current	Word	Word	Word	Word	Word	Word	Word
Spreadsheet	Current	Excel	Excel	Excel	Excel	Excel	Excel	Excel
Database	Current			Access	Access	Access	Access	Access
Operating system	Current	Windows	Windows	Windows	Windows	Windows	Windows	Windows
Desktop Publishing	Current	Publisher Word	Publisher Word	Publisher Word	Publisher Word	Publisher Word	PageMaker Publisher Word	Publisher Word
Multi-Media	Current				Movie Maker Premier Elements	Movie Maker	Pinnical Movie Maker Studio 8 DPS	DPS Moviemaker
Internet	Current	FireFox Internet Explorer	FireFox Internet Explorer	FireFox Internet Explorer	FireFox Internet Explorer	FireFox Internet Explorer	FireFox Internet Explorer	FireFox Internet Explorer
CAD (Computer Aided Design)	Current			MS Paint	MS Paint ProgeCad	MS Paint AutoCAD	MS Paint AutoCAD Autodesk Solidworks Softplan	MS Paint
Programming	Current			HTML	HTML Visual Basic	Visual Basic Front Page	FireFox HTML Editor Visual Basic (MIVU)	
E-Mail	Current			GroupWise	GroupWise	GroupWise	GroupWise Gagglenet (as needed)	GroupWise
Presentation Software	Current	PowerPoint	PowerPoint	PowerPoint	PowerPoint	PowerPoint	PowerPoint	PowerPoint
Digital Editing	Current	KidPix	KidPix	Photo Shop Elements I Movie Adobe Premier Elements		Pinnacle Studio 8 Photo Shop Elements I Movie Adobe Premier Elements DPS		
Keyboarding	Current	Typin's Cool Type to Learn	Typin's Cool Type to Learn	Mycrotype Pro	Mycrotype Pro	Mycrotype Pro		
MEAP Preparation	Current	Study Island Math/ELA	Study Island Math/ELA	Study Island Math	Study Island Math			
Data Warehousing	Current	Data Director	Data Director	Data Director	Data Director	Data Director	Data Director	Data Director
PLATO learning (Alternative Education site)	Current						Plato Credit Recovery	
Curriculum Alignment	Current	Curriculum Crafter	Curriculum Crafter	Curriculum Crafter	Curriculum Crafter	Curriculum Crafter	Curriculum Crafter	Curriculum Crafter

These software standards will be reviewed annually.

TECHNOLOGY LITERACY CURRICULUM

As members of a society that utilizes technology and information processing on a daily basis, it is the belief of the District Technology Committee that both staff and students must acquire the skills that allow them to:

- Operate technology independently
- Use technology for solving problems
- Contribute productively to society
- Understand the social implications of technology now and in the future

The Michigan Department of Education in its **Technology Content Standards and Benchmarks** has identified a technologically literate learner as a person who has the ability to responsibly use appropriate technology to communicate, solve problems, and access, manage, integrate, evaluate, and create information to improve learning in all subject areas and to acquire lifelong knowledge and skills in the 21st century

The district has aligned the K-8 Technology Literacy Curriculum to the new Michigan Education Technology K-8 Standards (METS) and began implementing this newly aligned curriculum in the fall of 2005. A copy of this curriculum alignment is included on pages 32-42. The 9-12 technology literacy curriculum has been reviewed and areas of current instruction have been identified.

The K-12 Technology curriculum outlines specific outcomes based on the following concepts:

- Technological knowledge and skills for life-long learning
- Information technology in communication
- Appropriate technologies for problem solving
- Systematic approaches to creating a technological project or presentation
- Ethical and legal standards in the use of technology
- Societal and environmental impacts of technology in making informed civic, social, economic and career decisions.

The District Technology Committee developed a Staff Technology Literacy Rubric (Appendix 3; pg. 59-60) based on ISTE/NCATE Program Standards to assist staff as they continue to develop technology literacy. Administrators and teaching staff will use this to monitor personal growth each year.

Michigan Educational Technology Standards (METS) - K-8 Checklist by Grade Levels

O = Teacher Observation	P = Portfolio Evidence	A = Formal Assessment	C = Technology Literacy Class								
Grades K through 2 – Technology Standards and Expectations – (by the end of Grade 2)											
1. Basic Operations and Concepts.											
a. Students demonstrate a sound understanding of the nature and operation of technology systems.											
1. Students understand that people use many types of technologies in their daily lives (e.g., computers, cameras, audio/video players, phones, televisions).											
C O	C O	C O									
2. Students identify common uses of technology found in daily life.											
C O	C O	C O									
3. Students recognize, name, and label the major hardware components in a computer system (e.g., computer, monitor, keyboard, mouse, and printer).											
C A	C A	C A									
4. Students identify the functions of the major hardware components in a computer system.											
C A	C A	C A									
5. Students discuss the basic care of computer hardware and various media types (e.g., diskettes, CDs, DVDs, videotapes).											
C O	C O	C O									
6. Students proofread and edit their writing using appropriate resources including dictionaries and a class developed checklist both individually and as a group.											
O	O	O									
b. Students are proficient in the use of technology.											
1. Students use various age-appropriate technologies for gathering information (e.g., dictionaries, encyclopedias, audio/video players, phones, web resources).											
2. Students use a variety of age-appropriate technologies for sharing information (e.g., drawing a picture, writing a story).											
C O	C O	C O									
3. Students recognize the functions of basic file menu commands (e.g., new, open, close, save, print).											
C A	C A	C A									
2. Social, ethical, and human issues.											
a. Students understand the ethical, cultural, and societal issues related to technology.											
1. Students identify common uses of information and communication technologies.											
C O	C O	C O									
2. Students discuss advantages and disadvantages of using technology.											
C O	C O	C O									
b. Students practice responsible use of technology systems, information, and software.											
1. Students recognize that using a password helps protect the privacy of information.											
C O	C O	C O									
2. Students discuss scenarios describing acceptable and unacceptable uses of age-appropriate technology (e.g., computers, phones, 911, internet, email) at home or at school.											
C O	C O	C O									
3. Students discuss the consequences of irresponsible uses of technology resources at home or at school.											
c. Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.											
1. Students understand that technology is a tool to help them complete a task.											
C O	C O	C O									
2. Students understand that technology is a source of information, learning and entertainment.											
C O	C O	C O									
3. Students can identify places in the community where one can access technology.											
C O	C O	C O									

Michigan Educational Technology Standards (METS) – K – 2nd Checklist

O = Teacher Observation	P = Portfolio Evidence	A = Formal Assessment	C = Technology Literacy Class								
3. Technology productivity tools.			K	1	2						
a. Students use technology tools to enhance learning, increase productivity, and promote creativity.											
1. Students know how to use a variety of productivity software (e.g., word processors, drawing tools, presentation software) to convey ideas and illustrate concepts.	C O	C O	C O								
2. Students will be able to recognize the best type of productivity software to use for a certain age-appropriate tasks (e.g., word-processing, drawing, web browsing).	C O	C O	C O								
b. Students use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.			K	1	2						
1. Students are aware of how to work with others when using technology tools (e.g., word processors, drawing tools, presentation software) to convey ideas or illustrate simple concepts relating to a specified project.		O	O								
4. Technology communications tools			K	1	2						
a. Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.											
1. Students will identify procedures for safely using basic telecommunication tools (e.g., e-mail, phones) with assistance from teachers, parents, or student partners.	C O	C O	C O								
b. Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.			K	1	2						
1. Students know how to use age-appropriate media (e.g., presentation software, newsletters, word processors) to communicate ideas to classmates, families, and others.	C O	C O	C O								
2. Students will know how to select media formats (e.g., text, graphics, photos, video), with assistance from teachers, parents, or student partners, to communicate and share ideas with classmates, families, and others.	C O	C O	C O								
5. Technology research tools			K	1	2						
a. Students use technology to locate, evaluate, and collect information from a variety of sources.											
1. Students know how to recognize the Web browser and associate it with accessing resources on the internet.	C O	C O	C O								
2. Students will use a variety of technology resources (e.g., CD-ROMs, DVDs, search engines, websites) to locate or collect.			C O								
b. Students use technology tools to process data and report results.			K	1	2						
1. Students will interpret simple information from existing age-appropriate electronic databases (e.g., dictionaries, encyclopedias, spreadsheets) with assistance from teachers, parents, or student partners.			C O								
c. Students evaluate and select new information resources and technological innovations based on the appropriateness to specific tasks.			K	1	2						
1. Students can provide a rationale for choosing one type of technology over another for completing a specific task.	C O	C O	C O								
6. Technology problem-solving and decision-making tools			K	1	2						
a. Students use technology resources for solving problems and making informed decisions.											
1. Students discuss how to use technology resources (e.g., dictionaries, encyclopedias, search engines, websites) to solve age-appropriate problems.			C O								
b. Students employ technology in the development of strategies for solving problems in the real world.			K	1	2						
1. Students identify ways that technology has been used to address real-world problems (personal or community).	C O	C O	C O								

Michigan Educational Technology Standards (METS) - 3rd to 5th Checklist

O = Teacher Observation

P = Portfolio Evidence

A = Formal Assessment

C = Technology Literacy Class

Grades Three through Five – Technology Standards and Expectations – (by the end of Grade 5)										
1. Basic Operations and Concepts.										
a. Students demonstrate a sound understanding of the nature and operation of technology systems.										
1.	Students discuss ways technology has changed life at school and at home.							3	4	5
								C	C	
								O	O	O
2.	Students discuss ways technology has changed business and government over the years.									O
3.	Students recognize and discuss the need for security applications (e.g., virus detection, spam defense, popup blockers, firewalls) to help protect information and to keep the system functioning properly.							C	C	
								O	O	O
b. Students are proficient in the use of technology.										
1.	Students know how to use basic input/output devices and other peripherals (e.g., scanners, digital cameras, video projectors).							C	C	
								A	A	
										O
2.	Students know proper keyboarding positions and touch-typing techniques.							C	C	C
								A	A	A
3.	Students manage and maintain files on a hard drive or the network.							C	C	
								O	O	O
										A
4.	Students demonstrate proper care in the use of hardware, software, peripherals, and storage media.							C	C	
								O	O	O
5.	Students know how to exchange files with other students using technology (e.g., e-mail attachments, network file sharing, diskettes, flash drives).							C	C	
								O	O	O
6.	Students identify which types of software can be used most effectively for different types of data, for different information needs, or for conveying results to different audiences.							C	C	O
								O	O	
7.	Students identify search strategies for locating needed information on the internet.							C	C	
								O	O	O
8.	Students proofread and edit writing using appropriate resources (e.g., dictionary, spell check, grammar check, grammar references, writing references) and grade level appropriate checklists both individually and in groups.							O	O	A
2. Social, ethical, and human issues.										
a. Students understand the ethical, cultural, and societal issues related to technology.										
1.	Students identify cultural and societal issues relating to technology.								O	
2.	Students discuss how information and communication technology supports collaboration, productivity, and lifelong learning.							C	C	
								O	O	
3.	Students discuss how various assistive technologies can benefit individuals with disabilities.							O	O	
4.	Students discuss the accuracy, relevance, appropriateness, and bias of electronic information sources.								C	
									O	O
b. Students practice responsible use of technology systems, information, and software.										
1.	Students discuss scenarios describing acceptable and unacceptable uses of technology (e.g., computers, digital cameras, cell-phones, PDAs, wireless connectivity) and describe consequences of inappropriate use.							C	C	

b. Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.					3	4	5			
1.	Students use a variety of media and formats to create and edit products (e.g., presentations, newsletters, brochures, web pages) to communicate information and ideas to various audiences.				C A	C A	O			
2.	Students identify how different forms of media and formats may be used to share similar information, depending on the intended audience (e.g., presentations for classmates, newsletters for parents).				C O	C O				
5. Technology research tools					3	4	5			
a. Students use technology to locate, evaluate, and collect information from a variety of sources.										
1.	Students use Web search engines and built-in search functions of other various resources to locate information.				C O	C O	O			
2.	Students describe basic guidelines for determining the validity of information accessed from various sources (e.g., web site, dictionary, on-line newspaper, CD-ROM).				C O	C O	O			
b. Students use technology tools to process data and report results.					3	4	5			
1.	Students know how to independently use existing databases (e.g., library catalogs, electronic dictionaries, encyclopedias) to locate, sort, and interpret information on an assigned topic.				C A	C A	O			
2.	Students perform simple queries on existing databases and report results on an assigned topic.				C O	C O	O			

Michigan Educational Technology Standards (METS) – 3rd to 5th Checklist										
O = Teacher Observation		P = Portfolio Evidence		A = Formal Assessment		C = Technology Literacy Class				
Grades Three through Five – Technology Standards and Expectations – (by the end of Grade 5)										
5c. Students evaluate and select new information resources and technological innovations based on the appropriateness to specific tasks.					3	4	5			
1.	Students identify appropriate technology tools and resources by evaluating the accuracy, appropriateness, and bias of the resource.				O	O C	O			
2.	Students compare and contrast the functions and capabilities of the word processor, database, and spreadsheet for gathering data, processing data, performing calculations, and reporting results.					O C	/			
6. Technology problem-solving and decision-making tools					3	4	5			
a. Students use technology resources for solving problems and making informed decisions.										
1.	Students use technology resources to access information that can assist [them] in making informed decisions about everyday matters (e.g., which movie to see, which product to purchase).				C O	C O	O			
b. Students employ technology in the development of strategies for solving problems in the real world.					3	4	5			
1.	Students use information and communication technology tools (e.g., calculators, probes, videos, DVDs, educational software) to collect, organize, and evaluate information to assist with solving real-life problems (personal or community).				C O	C O	O			

Michigan Educational Technology Standards (METS) - 6th to 8th Checklist

O = Teacher Observation	P = Portfolio Evidence	A = Formal Assessment	C = Technology Literacy Class
Grades Six through Eight – Technology Standards and Expectations – (by the end of Grade 8)			
1. Basic Operations and Concepts.			
a. Students demonstrate a sound understanding of the nature and operation of technology systems.			
1. Students understand that new technology tools can be developed to do what could not be done without the use of technology.			6 7 8
2. Students describe strategies for identifying, and preventing routine hardware and software problems that may occur during everyday technology use.			O O O
3. Students identify changes in hardware and software systems over time and discuss how these changes affected various groups (e.g., individual users, education, government, and businesses).			O C C
4. Students discuss common hardware and software difficulties and identify strategies for trouble-shooting and problem solving.			O O O
5. Students identify characteristics that suggest that the computer system hardware or software might need to be upgraded.			O O C
b. Students are proficient in the use of technology.			
1. Students use proper keyboarding posture, finger positions, and touch-typing techniques to improve accuracy, speed, and general efficiency in operating a computer.			6 7 8
2. Students use accurate technology terminology.			C C C
3. Students use a variety of technology tools (e.g., dictionary, thesaurus, grammar-checker, calculator) to maximize the accuracy of technology-produced products.			C C C
4. Students identify a variety of information storage devices (e.g., floppies, CDs, DVDs, flash drives, tapes) and provide a rationale for using a certain device for a specific purpose.			C C C
5. Students identify technology resources that assist with various consumer related activities (e.g., budgets, purchases, banking transactions, product descriptions).			O O C
6. Students can identify appropriate file formats for a variety of applications.			O O C
7. Students can use basic utility programs or built-in application functions to convert file formats.			/ / /
8. Students proofread and edit writing using appropriate resources (e.g., dictionary, spell check, grammar check, grammar references, writing references) and grade level appropriate checklists both individually and in groups.			C C C
2. Social, ethical, and human issues.			
a. Students understand the ethical, cultural, and societal issues related to technology.			
1. Students understand the potential risks and dangers associated with on-line communications.			6 7 8
2. Students identify security issues related to e-commerce.			O O O
3. Students describe possible consequences and costs related to unethical use of information and communication technologies.			O O O
4. Students discuss the societal impact of technology in the future.			C C C
b. Students practice responsible use of technology systems, information, and software.			
1. Students provide accurate citations when referencing information from outside sources in electronic reports.			6 7 8
2. Students discuss issues related to acceptable and responsible use of technology (e.g., privacy, security, copyright, plagiarism, spam, viruses, file-sharing).			/ / /
			C C C

Michigan Educational Technology Standards (METS) - 6th to 8th Checklist

O = Teacher Observation	P = Portfolio Evidence	A = Formal Assessment	C = Technology Literacy Class
2c. Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.			6 7 8
1. Students use technology to identify and explore various occupations or careers.			/ / /
2. Students discuss uses of technology (present and future) to support personal pursuits and lifelong learning.			O O O
3. Students identify uses of technology to support communication with peers, family, or school personnel.			/ / /
3. Technology productivity tools.			6 7 8
a. Students use technology tools to enhance learning, increase productivity, and promote creativity.			
1. Students apply common software features (e.g., thesaurus, formulas, charts, graphics, sounds) to enhance communication and to support creativity.			C C C
2. Students use a variety of resources, including the internet, to increase learning and productivity.			C C C
3. Students explore basic applications that promote creativity (e.g., graphics, presentation, photo-editing, programming, video-editing).			C C C
4. Students use available utilities for editing pictures, images, or charts.			C C C
b. Students use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.			6 7 8
1. Students use collaborative tools to design, develop, and enhance materials, publications, or presentations.			/ / /
4. Technology communications tools			6 7 8
a. Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.			
1. Students use a variety of telecommunication tools (e.g., e-mail, discussion groups, IM, chat rooms, blogs, video-conferences, web conferences) or other online resources to collaborate interactively with peers, experts, and other audiences.			/ / /
b. Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.			6 7 8
1. Students create a project (e.g., presentation, web page, newsletter, information brochure) using a variety of media and formats (e.g., graphs, charts, audio, graphics, video) to present content information to an audience.			O C C
5. Technology research tools			6 7 8
a. Students use technology to locate, evaluate, and collect information from a variety of sources.			
1. Students use a variety of Web search engines to locate information.			/ / /
2. Students evaluate information from various online resources for accuracy, bias, appropriateness, and comprehensiveness.			/ / /
3. Students can identify types of internet sites based on their domain names (e.g., edu, com, org, gov, au).			O O O
b. Students use technology tools to process data and report results.			6 7 8
1. Students know how to create and populate a database.			C C
2. Students can perform queries on existing databases.			/ /
3. Students know how to create and modify a simple database report.			/ C C
c. Students evaluate and select new information resources and technological innovations based on the appropriateness to specific tasks.			6 7 8
1. Students evaluate new technology tools and resources and determine the most appropriate tool to use for accomplishing a specific task.			O O C

Michigan Educational Technology Standards (METS) – 6th to 8th Checklist

O = Teacher Observation	P = Portfolio Evidence	A = Formal Assessment	C = Technology Literacy Class					
6. Technology problem-solving and decision-making tools						6	7	8
a. Students use technology resources for solving problems and making informed decisions.								
1. Students use database or spreadsheet information to make predictions, develop strategies, and evaluate decisions to assist them with solving a basic problem.						O	O	O
b. Students employ technology in the development of strategies for solving problems in the real world.						6	7	8
1. Students describe the information and communication technology tools to use for collecting information from different sources, analyze their findings, and draw conclusions for addressing real-world problems.						O	O	O

Michigan Educational Technology Standards (METS) - 9th to 12th Checklist

O = Teacher Observation	P = Portfolio Evidence	A = Formal Assessment	C = Technology Literacy Class		
Grades Nine through Twelve – Technology Standards and Expectations – (by the end of Grade 12)					
1. Basic Operations and Concepts					
a. Students demonstrate a sound understanding of the nature and operation of technology systems.					
	9	10	11	12	
6. Students discuss emerging technology resources (e.g., podcasting, webcasting, compressed video delivery, online file sharing, graphing calculators, global positioning software).	O	O	P	P	SPEECH ENG 11 MILARCH
7. Students identify the capabilities and limitations of emerging communication resources.	O	O	O	O	DISCUSS CURRENT ISSUES
8. Students understand the importance of both the predictable and unpredictable impacts of technology.	O	O	O	O	SCIENCE AUTO TECH CURRENT ISSUES
9. Students identify changes in hardware and software systems over time and discuss how these changes might affect them personally in their role as a lifelong learner.	C A	C A	C A	C A	IT CORE
10. Students understand the purpose, scope, and use of assistive technology.	O	O	O	O	SPEC ED STUDENTS
11. Students understand that access to online learning increases educational and workplace opportunities.	O	O	O	O	MIVU & DUAL STUDENTS
b. Students are proficient in the use of technology.					
	9	10	11	12	
9. Students will be provided with the opportunity to learn in a virtual environment as a strategy to build 21 st century learning skills.	C	C	C	C	IT CORE
10. Students understand the relationship between electronic resources, infrastructure, and connectivity.	O	O	O	O	MEDIA ORIENT- ATION
11. Students will routinely apply touch-typing techniques with advanced accuracy, speed, and efficiency.	O A C	O A C	O A C	O A C	ALL ASSESS IN IT CORE
12. Students assess and solve hardware and software problems by using online help or other user documentation and support.	O	O	O	O	ALL
13. Students identify common graphic, audio, and video file formats (e.g., jpeg, gif, bmp, mpeg, wav).	O	O	O	O	
14. Students demonstrate how to import/export text, graphics, or audio files.	O	O	O	O	
15. Students proofread and edit a document using an application's spelling and grammar checking functions.	O	A	A	O	
2. Social, ethical, and human issues					
a. Students understand the ethical, cultural, and societal issues related to technology.					
	9	10	11	12	
5. Students identify legal and ethical issues related to use of information and communication technology.	C A	C A	C A	C A	IT CORE BUS MAG
6. Students analyze current trends in information and communication technology and assess the potential of emerging technologies for ethical and unethical uses.	A	A	A	A	MARKET- ING BUS MAG
7. Students discuss possible long-range effects of unethical uses of technology (e.g., virus spreading, file pirating, hacking) on cultures and society.	O	O	O	O	MEDIA ORIENT- ATION CAD

					AUTOTECH IT CORE MARKETING
8. Students discuss the possible consequences and costs of unethical uses of information and computer technology.	O	O	A	A	

Michigan Educational Technology Standards (METS) - 9th to 12th Checklist

O = Teacher Observation P = Portfolio Evidence A = Formal Assessment C = Technology Literacy Class

2. Social, ethical, and human issues	9	10	11	12	
b. Students practice responsible use of technology systems, information, and software.					
3. Students identify ways that individuals can protect their technology systems from unethical or unscrupulous users.	C A	C A	C A	C A	IT CORE MARKETING CAD MEDIA ORIENT- ATION
4. Students demonstrate the ethical use of technology as a digital citizen and lifelong learner.	O	O	O	O	ALL – UA POLICY
5. Students explain the differences between freeware, shareware, and commercial software.	O	O	O	O	IT CORE CAD AUTOTECH
6. Students adhere to fair use and copyright guidelines.	O	A	A	O	ALL ASSESSED IT CORE
7. Students create appropriate citations for resources when presenting research findings.	A	A	A	A	ENG 10/11
8. Students adhere to the district acceptable use policy as well as state and federal laws.	O	O	O	O	ALL –UA POLICY
c. Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.	9	10	11	12	
4. Students explore career opportunities and identify their related technology skill requirements.	A	A	A	A	PSYCHOLOGY, HEALTH, ENG 9
5. Students design and implement a personal learning plan that includes technology to support his/her lifelong learning goals.	O	O	O	O	ALL OT – CAREER CRUISING UPDATES
3. Technology productivity tools	9	10	11	12	
a. Students use technology tools to enhance learning, increase productivity, and promote creativity.					
5. Students complete at least one online credit, or non-credit, course or online learning experience.	P	P	P	P	MIVU, DUAL ENROLL ENG 11
6. Students use technology tools for managing and communicating personal information (e.g., finances, contact information, schedules, purchases, correspondence).	O	O	O	O	ALL SCHOOL WEBSITE
7. Students have access to and utilize assistive technology tools.	O	O	O	O	MADE AVAILABLE TO ALL IN MC
8. Students apply advanced software features such as an application's built-in thesaurus, templates, and styles to improve the appearance of word processing documents, spreadsheets, and presentations.	O	O	A	A	PEER EDITING ENG 11 & COMP

9. Students use an online tutorial and discuss the benefits and disadvantages of this method of learning.	O	O	O	O	INDIVIDUALLY ACCESSED
10. Students develop a document or file for inclusion into a web site or web page.			A	A	SPEECH
11. Students use a variety of applications to plan, create, and edit a multimedia product (e.g., model, webcast, presentation, publication, or other creative work).	A	A	A	A	ALL PPT, PHOTO-STORY, MOVIE MAKER
12. Students have the opportunity to participate in real-life experiences associated with technology-related careers.	A	A	A	A	AUTO TECH, MARKETING, CAD, INFO TECH
b. Students use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.	9	10	11	12	
2. Students identify technology tools (e.g., authoring tools or other hardware and software resources) that could be used to create a group project.	O A	O A	O A	O A	ALL-ANYTIME IN COMPUTER LAB

Michigan Educational Technology Standards (METS) - 9th to 12th Checklist

O = Teacher Observation

P = Portfolio Evidence

A = Formal Assessment

C = Technology Literacy Class

4. Technology communications tools	9	10	11	12	
a. Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.					
2. Students identify and describe various telecommunications or online technologies (e.g., desktop conferencing, listservs, blogs, virtual reality).	O	O	O	O	
3. Students use available technologies (e.g., desktop conferencing, e-mail, groupware, instant-messaging) to communicate with others on a class assignment or project.	O	O	O	O	
4. Students collaborate in content-related projects that integrate a variety of media (e.g., print, audio, video, graphic, simulations, and models) with presentation, word processing, publishing, database, graphics design, or spreadsheet applications.	A	A	A	A	SPANISH, DRAFTING, CAD, WORLD HIST, ENG 9, ENG 10, ENG 11
5. Students plan and implement a collaborative project using telecommunications tools (e.g., groupware, interactive web sites, videoconferencing).					
b. Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.	9	10	11	12	
2. Students use a variety of media and formats to design, develop, publish, and present products (e.g., presentations, newsletters, web sites) to communicate original ideas to multiple audiences.	A	A	A	O	
5. Technology research tools	9	10	11	12	
a. Students use technology to locate, evaluate, and collect information from a variety of sources.					
4. Students compare, evaluate, and select appropriate internet search engines to locate information.	O	O	O	O	
5. Students determine if online sources are authoritative, valid, reliable, relevant, and comprehensive.	O	A	A	O	
6. Students distinguish between fact, opinion, point of view, and inference.	O	O	A	O	
7. Students evaluate resources for stereotyping, prejudice, and misrepresentation.	O	A	A	O	
b. Students use technology tools to process data and report results.	9	10	11	12	
4. Students formulate and use evaluation criteria (authority, accuracy, relevancy, timeliness) for information located on the internet to present research findings.	O	O	A	O	

c. Students evaluate and select new information resources and technological innovations based on the appropriateness to specific tasks.	9	10	11	12	
2. Students develop a plan to gather information using various research strategies (e.g., interviews, questionnaires, experiments, online surveys).	O	A	A	O	
6. Technology problem-solving and decision-making tools	9	10	11	12	
a. Students use technology resources for solving problems and making informed decisions.					
2. Students use a variety of technology resources (e.g., educational software, simulations, models) for problem solving and independent learning.	O	O	O	O	
3. Students describe the possible integration of two or more information and communication technology tools or resources to collaborate with peers, community members, and field experts.	A	A	A	A	ORAL PRESENTATIONS
b. Students employ technology in the development of strategies for solving problems in the real world.	9	10	11	12	
2. Students formulate a research question or hypothesis, then use appropriate information and communication technology resources to collect relevant information, analyze the findings, and report the results to multiple audiences.	A	A	A	O	

TECHNICAL SUPPORT AND ASSISTANCE

The District Technology committee supports a plan to replace computers in offices and computer labs every four or five years, and media center computers and classroom computers every five to six years depending on funding. Technology Bond funding from 1999 allowed us to begin this process. Each year, approximately 100-200 computers and other technologies are purchased following a pre-determined replacement schedule that will be supported by general fund and grant dollars.

The district technology office budgets general fund dollars to support the following items: printer cartridges, maintenance and repairs on printers, replacement parts for repairs on computers, expendable technology supplies, software annual licensing fees and updates, new software purchases for labs and classrooms, bulbs, cables, and miscellaneous items.

District technology staff consists of the following:

- District Media/Technology Director
- Technology Services Coordinator
- Computer Management Work leader
- 4 1/2 – Technology support/Lab managers
- 1-2 -Technology Co-op Students
- Part-time Technology Office Secretary
- Certified Novell Engineer – Consultant as needed

Additionally, district Media staff including building level Certified Media Specialists (3) & an Elementary Certified Teacher (1), Media Secretaries (2) and Media-Parapros (3), provide technical support for computers, other technologies, and audio-visual equipment as able. All Media and Technology staff participates in training and professional development opportunities provided locally and off-site in order to increase their technological skills.

This allows us to have technology support staff available in each building as well as at a district level in order to handle building and district level issues. Building technology support staff routinely does preventative maintenance on building computers and printers along with handling daily requests for service. Maintenance and cleaning is scheduled for all computers, printers, copiers, and audio-visual equipment on a yearly basis. Printer and copier repairs are contracted out to vendors that specialize in these services.

Requests for service are scheduled daily. Depending on the request, some are handled within the hour, within the day, or within the week. Though always having a log of requests to handle, we feel we are quite responsive to requests for service from all our users including administrators, teachers, support staff, and students with documentation used to track these requests. An on-line “Labs and Support” program is used to track requests for service, use of tech staff and lab sign-up.

A contract with a Certified Technology Consulting firm provides high-level network maintenance and security. Remote access to services is available to support necessary work during off-school hours. Daily monitoring of the district network by the technology staff assures attention to security issues. A number of preventative measures are in place, including a firewall and monitoring software with continual updates. A comprehensive data back-up system is used daily to assure safety and accuracy of important district records and files.

Wireless access to district networks and the Internet is available in the Middle and High School Media Center and Technology Office.

In addition to a computer at their desk, all administrators have access to laptops and PDAs to assist them with their daily work. Student schedules and demographic information is carried in their PDAs. Student pictures and regular updates to this information are also available.

An inventory system using a database and bar code label is used to track and record inventory information on all computers, other technologies, and audio-visual equipment when they arrive in the district. This database allows us to prepare reports and develop replacement schedules based on date of purchase or other pertinent information. A database of district software allows us to track licenses and installation locations. Implementation of a software program (ZenWorks) to deploy software, monitor inventory and provide remote desktop access is on-going.

District Technology office staff takes responsibility for management and coordination of the use of information technology resources, repairs, maintenance, budgeting, and technology support staff throughout the district. The district maintains an insurance policy to adequately cover materials and liability.

SUPPORTING RESOURCES

Manuals and Printed materials – The district maintains a professional library within the media centers to provide print and video support materials. District technology trainers provide handouts for staff and our high school Business and Information Technology Department has textbooks that support our software choices.

School Website – The district maintains a website that allows access to school information, community information and resources including a partnership with the Charlotte Community Library, and curricular support websites. (www.charlottenet.org)

Online Subscriptions – The district participates in AccessMichigan and our Regional Educational Media Center (REMC). Through these programs, the district receives ProQuest, Electric Library, SIRS Discoverer, InfoTrac, Heritage Quest Online and GALE virtual reference library. The district subscribes to World Book Online and United Streaming. The district is open to the purchase of curriculum based software, including Study Island and Plato Learning which were purchased summer 2007. Michigan Virtual High School course offerings have been made available to students since the fall of 2002 and in 2008; an agreement with GENet was contracted for use of their on-line course offerings.

Digital Content – On the district web page, there are locations for teachers to identify websites that support their curriculum for everyone to use. The district supports Microsoft Office Suite, AccessMichigan and REMC databases, a complete elementary level typing program, a wide variety of CD-ROM's, elementary software products that are aligned with State Standards and Benchmarks, and editing software. Building level media specialists and the District Technology Committee may assist in investigating these programs. If the programs alter curriculum, approval of the K-12 Curriculum Committee is required.

Professional Development – Staff is exposed to and encouraged to use the following resources: Michigan Teacher Network, MiClimb, REMC after-school specials, the Regional Technology Academy and locally offered technology trainings. Online webinars are also identified for district users as options or professional development.

Human Resources – Technical support staff with a wide-range of skills are available within the district to assist staff and students. Knowledgeable media staff in each building provides another level of support that helps everyone improve their technology literacy skills.

Administrative Software – Easily accessible student demographic software that includes attendance, discipline, scheduling, health records, grades, transcripts, special education, and food service modules assists teachers as they manage daily administrative tasks. An electronic grade book is used in grades K-12 that allows teachers to provide student progress reports as needed for communication with parents. A data warehousing program is also available to assess curriculum alignment and common assessments within the buildings.

Staff Intranet – A “Teacher Place” webpage contains important and useful documents from each of the following administrative offices: Human Resources, Business, Curriculum, Special Education, Technology and Maintenance.

On-Line Technology Service and Support – All staff use a locally developed on-line program to make requests for technical and maintenance support, schedule computer labs and media centers, and access HELP and training materials.

Policies Governing the use of Technology – District policies and guidelines are in place that governs the following issues for both students and staff:

- Acceptable Use and Access of Electronic Resources
- Web Publishing Guidelines
- Internet Use with Students/Class Guidelines
- Lab/Classroom Computer/Equipment/Internet Use Policy
- Computer Desktop Guidelines
- District Policy and Guidelines on Software Copyright
- Guidelines for Substitutes for Internet/Technology Use
- Computer Printing Guidelines
- Request for Technology Access Form

Full text for these policies and guidelines are located on the district web page at www.charlottenet.org.

COMMUNICATIONS/PUBLIC RELATIONS

Charlotte Public Schools Enhanced Communication Strategies

Charlotte Public Schools have a plethora of enhanced strategies for communicating with its staff, community and partner organizations on progress and plans for technology implementation and integration.

These methods of outreach are current and ongoing. As new methods are conceptualized and designed they will be implemented as time, resources and infrastructure permits.

Communication With Instructional Staff And Support Services

Charlotte Public Schools recognizes that communication with its staff on the progress and plans for technology implementation and integration will be vital for the success of ongoing technological enhancement, utilization and growth. Staff will receive updates on these subjects from a variety of sources including but not limited to:

- Charlotte Public Schools District Focus—quarterly
- Charlotte Public Schools Board Briefs—monthly
- Charlotte Public Schools Tech Talk—monthly
- Charlotte Elementary School Newsletters — monthly
- Charlotte Middle School Newsletter — monthly
- Charlotte High School—CHS Update—semi-annual
- Quality Block & Professional development meetings—monthly
- Media Program —Newsletters and Flyers, monthly
- Staff Technology In-service sessions—at least monthly
- Charlotte Public Schools administrative memorandums—ad hoc, periodic and on as needed basis
- District Technology Committee Representation and reports—ad hoc, periodic and on as needed basis
- Charlotte Public Schools—web page updated as necessary
- Charlotte Public Schools—email system on an as needed individual basis
- City of Charlotte, Charlotte Public Schools—cable access channel—daily
- Media Status Reports—bimonthly
- District Video Broadcasting—as needed
- Live Announcements—daily
- Video scroll announcements—daily
- Teacher Place — Web site as necessary

Communication With The Community At-Large

Charlotte Public Schools District Focus—quarterly
Charlotte Public Schools Board Briefs—monthly
Charlotte High School—CHS Update—semi-annually
PTO meetings at various Charlotte Public School buildings—monthly
Charlotte Public Schools Board of Education Meetings—monthly
Open Houses at various Charlotte Public School buildings—annually
Parent/teacher conferences at various Charlotte Public School buildings—semi-annually
Charlotte Public Schools—Use and Access Policy sessions—as necessary
Charlotte Public Schools Weekly Activities—Charlotte Community Education
Charlotte Public Schools—web page updated as necessary
Charlotte Public Schools—e-mail system on an as-needed individual basis
City of Charlotte, Charlotte Public Schools—cable access channel—daily

Communication with Partner Organizations

Charlotte Area Networking for Development and Opportunities - CanDo!
Charlotte Business Sponsors
Charlotte Chamber of Commerce
City of Charlotte
Eaton Intermediate School District
Lansing Community College
Regional Educational Media Centers—REMC 13

FUNDING AND BUDGET

In June of 1999, the Charlotte Community approved a \$6 million technology bond. These funds were targeted to build a technology infrastructure for voice, video and data and to provide all the necessary hardware for the end user. The four elementary schools and the high school received the benefit of these improvements and purchases. The new middle school, which opened in the fall of 2002, included all technologies that were available at the other district buildings. The district has begun to set aside general fund dollars on a yearly basis that will be available in the future for hardware replacement at the expected replacement rate of approximately 100-200 computers per year.

The Charlotte community passed another Bond in 2002 that supported renovations and additions to our high school complex and added an Aquatic complex to the new Middle School. This bond included the necessary budget for a technology infrastructure servicing these areas that connected to the infrastructure already in place in each building. Funds were also available to provide the needed technology hardware in each classroom and office comparable to what it was available in all other district classrooms and offices.

Charlotte Public Schools plans to upgrade all computer stations on an average 4-5 year replacement cycle for labs and offices, and 5-6 years for media centers and classrooms. Additional instructional technologies purchased over the course of the 1999 and 2002 bonds will continue to be supported and updated by district general fund dollars each year as curricular needs dictate their use.

A strong commitment to Professional Development has been demonstrated for more than 10 years and will continue to be a priority in the future. Weekly and summer technology training opportunities have been provided with both trainers and participants receiving professional development credit. Currently Title II D funds are used to support our district professional development opportunities. The focus of professional development has been the integration of technology into the curriculum.

District Servers, Internet access, and supplies needed to support them will continue to be funded with general funds. A yearly budget to continue supporting this area at a high level is a district priority. Charlotte has had a long-standing contract with network technology consultants and will continue to use consultants for this service in the foreseeable future. Universal Service Funds (USF) have been used for phone and Internet services when funding was awarded. We will continue to seek USF reimbursement for all Internet, phone services and internal connections.

Charlotte Public Schools own its PBX district phone system. The annual expenses to support this system will be minimal over the next three years and will be covered by general fund dollars.

Providing printer access to all users is an area that is under constant scrutiny since access in each classroom is desirable yet costly. Network copier and printer options are available in each building. Currently printer supplies are provided as part of a district purchase and deployment plan. General fund dollars will support this effort on a yearly basis.

Software is a yearly expense that continues to rise as users become more able to use all the options available to them. With annual licensing fees rising, we anticipate that the cost of doing

business will continue to increase each year. General fund dollars are the main source of funding for software and software upgrades.

Charlotte Schools has a strong commitment to providing technology support staff allowing everyone to concentrate on the productivity or instructional application planned. As a result, confidence and constant improvement to their technological skills is possible. Technology support staff is provided in each district building at least part-time every day. Their main duties include managing the building computer labs, trouble-shooting, and acting as a resource for all building staff as they use computers, software and other technologies. District level technology support staff provide network management, district software user support, Internet support, and a myriad of other technical and software support.

CHARLOTTE PUBLIC SCHOOLS TECHNOLOGY SUPPORT STAFF
1 - Media/Technology Director
1 - Technology Services Coordinator
1 – Computer Management Workleader
4 ½- Tech Support/Lab Managers
1 - Half-time Clerical
1-2 - Technology Co-op Students
1 - Novell Network Consultant

Administrative tasks such as attendance, grades, communication (e-mail and voice-mail), instructional material development and reproduction, food service accounting, and budget management are all done electronically. Web access to student information, school activities, instructional programming, technology policies, and many other district resources is available for staff, students, and parents on the district web page (www.charlottenet.org)

Charlotte Schools understands and appreciates the need to plan for maintenance, repair, supplies, and replacement of computers and other technologies. The District Technology Committee provides direction and articulates expectations for district technology staff regarding these issues. Yearly action plans and budgets are developed so that a comprehensive, intentional, and instructionally sound plan for support, upgrades, new purchases, and implementations is realistic and on going. Charlotte Schools finds itself in an enviable position that provides access to the best instructional and management technologies used in schools today.

PROJECTED FUNDING & TECHNOLOGY BUDGET

2009-2012

The Chart below outlines general fund expenditures that are planned for the next 4 years.
More specific plans are available from the District Technology Office.

GENERAL FUND DOLLARS	2009/10	2010/11	2011/12	2012/13
Secondary Computers	98,000	139,000	111,000	82,000
Elementary Computers	31,000	7,000	0	71,000
Administrative Computers	11,000	0	0	0
Additional Instructional Technology Hardware	43,000	40,000	43,000	40,000
Network Operational Expenses, Hardware Maintenance, Expendables, Internet, etc.	52,000	55,000	58,000	61,000
Telephone System Maintenance	20,000	20,000	20,000	20,000
**Telephone-POTS PRI's, Long Distance	45,000	47,000	49,000	51,000
**Internet Access	12,000	12,000	12,000	12,000
Printer Maintenance and Tech Supplies	30,000	35,000	38,000	41,000
Software expenses & upgrades	140,000	145,000	150,000	155,000
Professional Development	6,500	6,500	6,500	65000
Network Tech Support Consultants	50,000	53,000	56,000	59,000
Tech Department & Support Personnel	450,000	484,000	520,000	560,000
Total General Fund Dollars	988,500	1,043,500	1,063,500	1,217,000

** Based on our Free and Reduced lunch figures, Charlotte Schools has received USF reimbursement of approximately 50% for telecommunications and Internet. The amounts listed in this budget reflect the anticipated USF reimbursement.

Charlotte Public Schools is committed to supporting, maintaining, and improving hardware, software, network infrastructure, telecommunications, and other services in support of instruction and student learning. Yearly adequate funding and long-range planning has allowed this to be our past practice and future expectation.

MONITORING AND EVALUATION

Technology Plan Evaluation

The impact of implementing technology must be assessed and measured on an ongoing basis. Board members, parents, administrators, staff and students must participate in this assessment as they see and understand the impact. The District Technology Committee will conduct an evaluation yearly as budget recommendations and action plans are developed for the coming school year. By periodically reviewing this Technology Plan document, the following areas will be evaluated:

1. The goals and objectives
2. Technology curriculum student outcomes
3. Use of technology as an instructional tool by teachers to help students meet the State Standards and Benchmarks
4. Use of technology as an administrative tool
5. Technology procurement/replacement program
6. Acceptable Use Policy and other district policies governing the use of technology

Success at reaching our Technology Goals will be monitored and measured in a number of ways on an on-going basis:

- Course Instructor generated assessments
- Annual 8th grade Technology Literacy Assessment
- Annual use of the Staff Technology Literacy Rubric
- Annual student technology skill evaluation (K-4)
- Annual student project-based skill evaluation (5-8)
- Successful course completion (9-12)
- Annual Media Program orientations, team teaching and individual assistance (K-12)

The district's progress in reaching its vision and goals will serve as the basis for making revisions in the district's long-range plan. Strategies for unmet goals include: credit recovery plans for high school students, review and remediation at the next grade level (K-8), and the individual development plans (IDPs) for staff and students.

COORDINATION OF RESOURCES

Charlotte Public Schools has a history of seeking out possible funding sources for the implementation of the district Technology long-range plan. The district has applied for and received Universal Service Funds each year the funds have been available to help with telecommunications and Internet access costs.

Title II, Part D funds continue to be used for Professional Development opportunities for staff, along with conference registration at technology conferences.

Charlotte has coordinated and facilitated a summer Technology Camp as a training site for the Regional Technology Academy, providing staff with opportunities to improve their technical skills and create innovative lessons that integrate technology. Title IID monies help fund this project. This project will continue to offer locally, unique and valuable professional development opportunities for our staff.

Participation on the Eaton County Technology Directors Committee and the Eaton County Instructional Leadership Team allows Charlotte administrative staff to influence decision making, develop policies and practices that provide opportunities for our staff, and coordinate district plans and activities with county offerings. The focus covering this 2009-2012 Technology Plan will include the implementation of a wide area network in collaboration with the Eaton Intermediate School District.

Participation in our Regional Educational Media Center (REMC 13) provides us access to Co-op purchasing for on-line resources, AV-equipment, and State of Michigan Bids for computer hardware, software, and supplies.

Charlotte Schools will continue to seek funding sources that become available through grants and local, state, or federal programs. Coordination of district general funds, USF funding, grants and other programs will continue to be a priority for the district as we plan for new implementations and support current technologies.

Charlotte Public Schools

Acceptable Use Policy

Electronic Information Access and Use For Educational Purposes Policy

Charlotte Schools takes its responsibility for providing access to technology and electronic resources to students and staff seriously. The Board adopted Acceptable Use Policy (AUP) was created by the District Technology Committee (DTC) and is reviewed regularly to maintain accuracy, appropriateness, and timeliness. It is used with both staff and students to outline policies, procedures, responsibilities, and expectations for technology use.

At the start of each school year, this Policy is provided to all school staff as part of a “Managing the Mandatories” program that is spearheaded by Central Office Administrators. Building Administrators review this and other important district policies with staff. Staff are required to have on file a “Declaration of Responsibility” indicating their willingness to abide by this AUP. It is the district’s desire to make sure that everyone knows their level of responsibility and that they model appropriate use for students.

Appendix 2 – CPS Lab/Classroom – Computers/Equipment/Internet Use Policy, was developed by the DTC to help educate all our K-12 students about their responsibilities and expectations for the use of technology and electronic resources. Starting with 5th graders, students are required to sign a “Declaration of Responsibility” which is kept on file in a designated area within each building. This declaration allows students to have access to all the technologies available with adult supervision. It is the district’s belief that even with a firewall and content filtering; adult supervision is the only real way to make sure that we abide by all the regulations in the Child Internet Protection Act (CIPA.)

Charlotte Public Schools
Acceptable Use Policy

Electronic Information Access and Use For Educational Purposes Policy

Charlotte Public Schools encourages the use of electronic information technologies in its educational endeavors so that users can access current and relevant resources, develop information management skills, communicate in a technologically-rich environment, and become responsible, self-directed, life-long learners.

In accordance with the Children's Internet Protection Act (CIPA), the District has implemented this policy, in part, to:

- A. promote the safe, ethical, responsible, and legal use of the Internet;
- B. support the effective use of the Internet for educational purposes;
- C. protect students against potential dangers in their use of the Internet; and
- D. ensure accountability.

As property of the Charlotte Public Schools, the district's electronic information technologies are intended for educational purposes and are neither a public access service nor a public forum. Only Charlotte Public Schools students, faculty, and staff who agree to the terms of this policy may be granted a network/charlottenet account.

Users have no expectation of privacy as to information or activity on the District's electronic information technologies. The District retains the right to monitor all use, including but not limited to personal e-mail and voice mail communications, computer files, databases, web logs, audit trails, or any other electronic transmissions accessed through the District's electronic information technologies.

The District's electronic information technologies are provided on an "as is, as available" basis and are provided without warranties (either express or implied) of any kind for any reason.

Policy Definitions

Equipment includes, but is not limited to computers, disk drives, printers, scanners, networks, video and audio recorders, cameras, photocopiers, phones, and other related electronic resources.

Software includes, but is not limited to computer software, print and non-print resources.

Networks include, but are not limited to all voice and data systems.

User includes anyone who is accessing or using District equipment, software, or networks.

Educational purposes include but are not limited to the use of the District's electronic information technologies for classroom activities, continuing education, professional or career development, and high-quality, educationally enriching personal research.

Inappropriate material includes but is not limited to materials that are harmful or inappropriate to minors, obscene, pornographic, profane, vulgar, harassing, threatening, defamatory, or otherwise prohibited by law. The determination of a materials' "appropriateness" is based on both the materials' content and intended use.

Vandalism is any attempt to harm, destroy, disrupt, or hack the operation of the District's electronic informational technologies, including but not limited to the creation or intentional receipt or transmission of computer viruses.

Charlotte Public Schools will implement filtering software intended to block minors' access to materials that are obscene, child pornography, harmful to minors, or that the District determines to be inappropriate for minors. The District does not guarantee that filtering will control users' access to such materials, or that users will not have access to such materials while using the District's information technologies. The filtering software operates only within the District wide area network (WAN) or local area network (LAN) and does not operate when using dial-up-access.

The District does not take responsibility for resources located or actions taken by the users that do not support the purposes of the School District.

It shall be the responsibility of all members of the District staff to supervise and monitor usage of the online computer network and access to the Internet in accordance with this policy and the Children's Internet Protection Act.

User Privileges

User has the privilege to:

1. Use the District's electronic information technologies for which they have received training to facilitate learning and enhance educational information exchange.
2. Access information from district networks, the Internet, and outside resources to retrieve information to facilitate learning and enhance educational information exchange.

User Responsibilities

Users have the responsibility to:

1. Use the District's electronic information technologies only to facilitate learning and enhance information exchange consistent with educational purposes.
2. Attend appropriate training sessions in the use and care of hardware, software, and network peripherals.
3. Seek instruction for the use of any available technology for which the User is not familiar.
4. Comply with the rules set forth in this policy, as well as the rules established for using hardware, software, labs, and networks.
5. Maintain the privacy of passwords, which shall not be published, shared, or otherwise disclosed.
6. Promptly notify a school official if you identify a possible security problem.
7. Access only the network account for which the User is authorized.
8. Use e-mail, chat, instant messaging, and other forms of two-way electronic communications only for educational purposes and only under the direct supervision of an adult.
9. Promptly notify a school employee about any electronic message you receive that is inappropriate or makes you feel uncomfortable.
10. Scan all electronic media for virus, dirt, damage, or other contamination before using in District systems.
11. Maintain the integrity of the electronic messaging systems by deleting files/messages which have exceeded their established limit, reporting any security violations, and making only those contacts which facilitate learning and enhance educational information exchange.
12. Keep inappropriate material from entering the district's network or from being reproduced or distributed in visual, digital, or written format.
13. Comply with all applicable state and federal laws, including copyright, trademark laws and applicable licensing agreements, in using the District's electronic information technologies.
14. Exercise caution when considering the purchase of goods and services over the Internet. The User, not the Charlotte Public Schools, accepts full responsibility for any financial obligations made or personal information provided while using the District's electronic information technologies.
15. Make financial restitution for unauthorized expenditures or for damages caused by inappropriate use or access.
16. Protect any personal equipment that is used to access Charlotte Public Schools information technologies.

17. Comply with the rules set forth in this policy, general District rules, and additional rules as established by the District, Board of Education policies, staff manuals, department procedures and student handbooks.

Users Prohibitions:

Users shall not:

1. Post or disclose personal identification information about yourself or others over the Internet, even if this information is solicited by a web site that solicits such information.
2. Use technology to advertise, offer, or provide goods or services for financial gain.
3. Use technology for political lobbying: although Users may communicate opinions with elected representatives.
4. Use District electronic information technologies to draft, send, or receive inappropriate materials or to engage in behavior which violates District policy, including the student code of conduct.
5. Vandalize District or other electronic information technologies.

Consequences of Inappropriate Behavior

Because access to the District's electronic informational technologies is a privilege and not a right, any User who does not comply with the Information Access and Use Policy will lose access privileges. Repeated or severe infractions may result in permanent termination of access privileges. Violators may also face additional disciplinary consequences consistent with district policy.

Challenges

Challenges to District information technologies and resources shall be made in writing and shall state the reasons for the challenge. A District appointed panel shall review the challenge and determine its appropriateness.

For a copy of the complete policy, please contact your building Media Center.

**(Attach Acceptable Use Policy-Member Responsibility Declaration
4.15.02)**

Appendix 2

CHARLOTTE PUBLIC SCHOOLS

LAB/CLASSROOM

COMPUTERS/EQUIPMENT/INTERNET USE POLICY

The goal of using computers, the Internet, and/or any type of equipment, is to locate information for educational purposes. Students using computers and/or the Internet will increase their technological skills, communication skills and information gathering skills as they work with data and other people. Students using computers/Internet agree to follow these guidelines:

K-4 STUDENT	5-8 STUDENT	9-12 STUDENT
<ul style="list-style-type: none"> ▪ I will always follow my teacher’s directions for using computers, equipment and the Internet. ▪ I will not use the Internet unless I have my teacher’s permission. ▪ I will use computers and equipment with respect. ▪ I will follow the rules about using the Internet. ▪ I will ask for help when I need it. ▪ I will not give out my name, address or phone number on the Internet. ▪ I will tell my teacher if the computer or equipment isn’t working. ▪ I will not copy or use someone else’s files or software. 	<ul style="list-style-type: none"> ▪ I will always follow my teacher’s directions for using computers, equipment and the Internet. ▪ I will not use the Internet unless I have my teacher’s permission. ▪ I will use computers, equipment, and the Internet responsibly and respectfully. ▪ I will ask for help if I do not know how to use computers or equipment. ▪ I will not give out personal information on the Internet without my teacher’s permission. ▪ I will follow the rules about using the Internet. ▪ I will tell my teacher if the computer or equipment is not working properly. ▪ I will not share my login, password or files with others. ▪ I will not copy or download files or software from the Internet or access someone else’s files on school computers. ▪ I will make sure that the web sites I access and the language I use on the Internet is respectful, responsible, and educational. 	<ul style="list-style-type: none"> ▪ I will not use the Internet unless I have a CharlotteNet account and/or Instructor’s permission. ▪ I will follow the Instructor’s directions on the Internet and use it only for school purposes. ▪ I will not abuse any policies, procedures or computer hardware, software, and/or other technology equipment. ▪ I will not give out any personal information (<i>name, address, phone number</i>) about others or myself on the Internet without my Instructor’s permission. ▪ I understand that the web sites I access and the language I use on the Internet must be respectful, responsible, and educational. If I have any doubts as to the appropriateness of a site, I will contact my Instructor <u>BEFORE</u> accessing that site. ▪ I will notify my Instructor immediately if a problem exists with hardware, software or Internet use. ▪ I will not copy, alter, install, download or give out files unless I get permission from my Instructor. I understand class accounts are to be used <u>ONLY</u> during that class period with permission from my Instructor. <i>No other time is allowed unless special permission is granted and supervision is provided by the classroom teacher in charge.</i>

Appendix 3

Charlotte Public Schools
Staff Technology Literacy Rubric
 Based on ISTE/NCATE Program Standards
 May 24, 2005

STAFF NAME _____

ADMINISTRATOR _____

Date _____

Skill	Not Proficient Score 1 - 3	Developing Score 4 – 7	Proficient Score 8 - 10	Score
Technology Operations and Concepts				
Demonstrates knowledge, skills, and understanding related to technology use.	<ul style="list-style-type: none"> Identifies computer hardware components Describes uses of computer and application programs Identifies GUI (graphical user interface) functions represented by menus, symbols, and icons 	<ul style="list-style-type: none"> Uses common peripheral devices Describes teacher and student uses for application software Identifies and applies GUI menu options to select, create, edit, manage and maintain files 	<ul style="list-style-type: none"> Connects and uses hardware components and peripherals Identifies, describes and solves simple technical problems and communicates more serious problems to tech staff Accesses and uses application programs, network-based curriculum resources, e-mail, utilities programs and maintains files in various locations 	
Planning and Designing Learning Environments and Experiences				
Demonstrates the ability to integrate technology use in instruction and activities.	<ul style="list-style-type: none"> Identifies basic technologies and uses them with students on occasion 	<ul style="list-style-type: none"> Uses appropriate technologies to enhance student performance and activities Uses on-line resources 	<ul style="list-style-type: none"> Plans and implements technology rich lessons and activities regularly Uses the Internet for educational enhancement 	
Identifies and locates technology resources to use in instruction.	<ul style="list-style-type: none"> Identifies technology resources that are available at CPS 	<ul style="list-style-type: none"> Demonstrates how to use electronic resources for instructional purposes 	<ul style="list-style-type: none"> Designs lessons that use authoritative resources and teaches students how to evaluate resources and web sites 	
Teaching, Learning, and the Curriculum				
Develops technology enhanced experiences that address content and technology standards.	<ul style="list-style-type: none"> Identifies technology integration ideas related to core subject area 	<ul style="list-style-type: none"> Aligns activities with curriculum standards and related technology resources 	<ul style="list-style-type: none"> Knows how to facilitate learning experiences that integrate both content area as well as technology standards 	
Uses technology to support learner-centered strategies that address the diverse needs of students.	<ul style="list-style-type: none"> Identifies and uses grade-level appropriate content resources with technology tools 	<ul style="list-style-type: none"> Selects and uses technology resources to facilitate high order thinking skills in students (Ex: Spreadsheets, Simulations, Web Resources) 	<ul style="list-style-type: none"> Applies strategies for using technology that are designed to facilitate higher order thinking in students, in relation to curriculum goals 	
Manages student learning activities in	<ul style="list-style-type: none"> Manages strategies for the use, care and sharing of 	<ul style="list-style-type: none"> Knows how to select and use technology resources to develop 	<ul style="list-style-type: none"> Applies technology-based strategies to use resources that develop both 	

Skill	Not Proficient	Score 1 - 3	Developing	Score 4 – 7	Proficient	Score 8 - 10	Score
technology rich environments.	technology resources with students		students' content area knowledge		content area knowledge and technology literacy		
Assessment and Evaluation							
Applies technology in assessing student learning of subject matter using a variety of assessment techniques.	<ul style="list-style-type: none"> Uses the basic features of the CPS provided electronic grade book for record keeping and grading 		<ul style="list-style-type: none"> Uses the advanced features of the CPS provided electronic grade book including posting of grades and assignments for family access 		<ul style="list-style-type: none"> Uses and analyses grading and record keeping on students to improve planning, instruction, and management 		
Productivity and Professional Practice							
Participates in Professional Development to increase their technology skills.	<ul style="list-style-type: none"> Attends only mandated technology trainings 		<ul style="list-style-type: none"> Attends two self-selected technology trainings each year that are provided by CPS 		<ul style="list-style-type: none"> Attends Regional Tech Academy trainings Attends trainings offered by Eaton ISD and REMC (or others) during the year 		
Applies technology to increase productivity.	<ul style="list-style-type: none"> Uses these basic MS Office applications: MS Word and PowerPoint 		<ul style="list-style-type: none"> Uses all applications and software packages available and applicable (MS Office, Skyward, GroupWise, etc.) 		<ul style="list-style-type: none"> Uses software beyond the basic CPS provided packages for productivity and materials development 		
Uses technology to communicate and collaborate with peers, parents, and the larger community.	<ul style="list-style-type: none"> Uses the phone system as a primary means of communication 		<ul style="list-style-type: none"> Uses e-mail and voice mail to communicate with parents 		<ul style="list-style-type: none"> Uses e-mail or voice mail to notify parents of homework assignments Has a web site with class information Uses the district provided grade book web option for posting grades. 		
Social, Ethical, Legal, and Human Issues							
Models and teaches legal and ethical practice related to technology use.	<ul style="list-style-type: none"> Identifies legal and ethical issues related to information technology 		<ul style="list-style-type: none"> Understands the content of the CPS Acceptable Use Policy and CPS technology use expectations 		<ul style="list-style-type: none"> Demonstrates an understanding of the importance of following the guidelines for acceptable use 		
Leadership and Vision							
Utilizes school technology facilities and resources to implement classroom instruction.	<ul style="list-style-type: none"> Uses technology and resources at a basic level within their classroom and with their students 		<ul style="list-style-type: none"> Assists colleagues in the use of available technology and resources for instruction 		<ul style="list-style-type: none"> Develops and demonstrates lessons and activities that consistently use the newest available technologies and resources 		
					TOTAL SCORE		

Technology Integration Time-Line – Appendix 4

2009/2010	Design phase of Wide Area Network in collaboration with EISD
Yearly	8th grade students will have their technology literacy formally assessed to meet NCLB requirements.
Yearly	8-12th grade students will begin to have opportunities for on-line course work.
Yearly	Video-on-demand (United Streaming) will be available to all staff & district buildings.
Yearly	NCA K-12 writing strategies will begin to include the use of technology.
Yearly	All buildings will have computer labs & classroom technologies to support teaching and learning.
Yearly	K-8 basic technology skills will be taught and evaluated by classroom teachers and in technology literacy classes.
Yearly	MOS Certification will be an option for high school level students as part of a required HS computer literacy course.
Yearly	Career Cruising (for middle and high school students) will be used to explore career pathways and design Educational Development Plans (EDPS).
Yearly	Access to technology, for both staff and students, will be evaluated and updated as necessary to support curriculum.
Yearly	The High School Vocational Education Curriculum will be reviewed and updated as necessary,
Yearly	Teacher evaluations will include recommendation for technology integration and a discussion about current uses.
Yearly	Assistive technology to support reading, writing and thinking will be available in all school buildings.
Yearly	The District web page will provide easy access to available on-line resources.
Yearly	Emerging technologies will be evaluated for educational applications and integrated as funding is available to do so.
2010/2011	Implementation of Wide Area Network in collaboration with EISD

Professional Development Training Time-Line – Appendix 5

Yearly	MEAP data will be evaluated and improvement strategies will include the use of technology where appropriate.
Yearly	8 th grade student performance in the NCLB Technology Literacy Assessment will be evaluated & professional development planned to assist staff improve instruction to increase student achievement.
Yearly	Media & Technology staff will assist teachers with technology integration.
Yearly	Numerous technology use and integration training options will be provided for staff to support curriculum and classroom practices.
Yearly	Teacher evaluations will include an assessment of individual technology skills and integration activities.
Yearly	Student assessments will be evaluated after course completion and the necessary adjustment will be made for staff training each semester.
2009/2012	Inclusion of the use of technology to support academic achievement goals in core areas
Yearly	Use of Data Warehousing software to support and enhance curriculum and MEAP support