

MERKEL ISD Technology Plan

2008 - 2011

WILLIAM HOOD

SUPERINTENDENT

DISTRICT PROFILE

ESC Region 14
City, State Zip MERKEL, TX 795360430
Phone (325) 928-5813
Fax (325) 928-3910
County District Number 221904

Number of Campuses	5
Total Student Enrollment	1179
District Size	1,000 - 1,599
Percent Econ. Disadvantaged	52.33%

Technology Expenditures		\$1,620,020.00
Technology budgets reported in plan by category	Teaching and Learning Budget	\$385,000.00
	Educator Preparation and Development Budget	\$374,000.00
	Leadership, Administration and Support Budget	\$117,200.00
	Infrastructure for Technology Budget	\$743,820.00
	Total:	\$1,620,020.00
Technology Expenditure Per Pupil	\$1,374.06	
Number of Campuses with Direct Connection to Internet	5	
Percentage of Campuses with Direct Connection to Internet	100.00%	

Number of Classrooms with Direct Connection to Internet	145
Percentage of Classrooms with Direct Connection to Internet	100.00%
Computer/Student Ratio	2 student(s) for every computer
Computer/Teacher Ratio	1 teacher(s) for every computer
Number of campuses that need to complete the Texas Campus STaR Chart	5
Percentage of campuses that have completed the Texas Campus STaR Chart	100.00 %

Plan Introduction

Plan Last Edited 02/18/2008

Plan status:	recommended
Years Included in the Plan:	2008 - 2011
Number of years covered by the plan:	3

Technology Planning Committee

Bill Hood Superintendent
 Gaylon Brnovak Assistant Superintendent
 Suzie Steckly Technology Coordinator
 Ronnie Wright High School Principal
 Joel Haragan Middle School Principal
 Dee Dee Wright Intermediate School Principal
 Dee Dee Wright Elementary School Principal
 Gayle Maxey Elementary School Principal
 Nancy Johnson Middle School Librarian
 Cindy Duncan High School Librarian
 Ashlei Adams Teacher
 Kathryn James Technology Assistant
 Angela Huff Computer Lab Instructor
 Cheryl Peterson Computer Lab Instructor
 Justin Ray Student
 Kathy Armstrong Parent
 Rene Wells Parent
 Finley Barnett Community Member
 Andy Hart Community Member

Executive Summary

This Educational Technology Plan will aide the Merkel Independent School District's (MISD) efforts to use technology to enable students to meet curriculum standards and to help the staff members deliver

instruction and service to students and parents. The plan describes:

- The vision for using educational technology as a tool for student achievement.
- Ways technology will assist administrative, business, and instructional support functions.
- The minimum expectancies for students and staff as users of technology.
- The state of our technology today.
- A plan for training the staff to integrate educational technology with effective instructional and managerial functions.
- The requirements for hardware, software, network configurations, and applications.

Needs Assessment

Assessment Process:

The Merkel Independent School District's Mission Statement

The mission of the Merkel Independent School District is to provide all students with skills of logical, independent, creative thinking, with effective communication skills. Because of instruction in our schools, students will acquire a knowledge and appreciation of citizenship, economic responsibilities, and American heritage. Learning will occur in an environment characterized by moral values and character.

The district accomplishes this mission by striving:

- To demonstrate exemplary performance in comparison to national standards.
- To achieve and maintain the level of technology and technical expertise equivalent to the standards of society.
- To help each student develop self discipline and to encourage each child to behave in a way acceptable to society.
- To increase opportunities for parents and the community to become full partners in the educational process.
- To enlist the cooperation of parents, staff, community, and law enforcement agencies to build safeguards that deter violence and drug use so that all enjoy a safe, secure learning environment.
- To provide a balanced and appropriate curriculum to all students.
- To employ educators who are knowledgeable of creative and innovative techniques to improve student achievement.
- To recruit, develop, and retain qualified and highly effective personnel.
- To maintain the appearance of the district's buildings and grounds in order for them to be attractive and functional.

The District's Vision for the Technology Plan

The Merkel ISD is moving toward the 21st century amid a period of dramatic change in the way we live and work. Our school must be a dynamic and ever-changing institution. We must provide as many opportunities as possible to explore and excel in the area of technology.

The district believes that:

- We will apply technology's powerful tools to change the way our students learn.
- Interactive technology will play more than an incidental role in the classroom.
- Teaching approaches and curricula will place value on technology as a tool.
- Students will be involved in creating dynamic products, making decisions, selecting solutions from alternatives, and demonstrating learning by investigating facts and implementing solutions.
- Technology will be viewed as another tool we use to teach our students and bridge the gap hindering socio-economically disadvantaged students and minorities.
- Technology and particularly the Internet enable students to be treated as individuals and to have highly customized learning experiences based on their backgrounds, individual talents, age levels, cognitive styles, and interpersonal preferences.
- Learning will become a social activity, facilitated by a new generation of educators armed with new tools, new approaches, and new skills.
- Students will be encouraged to construct, evaluate, manipulate, and present their ideas while demonstrating a deeper understanding of the curriculum concepts.
- Technology will give our low socio-economic students the opportunity to enter the information age and 'to log on the world' as well as the means to break out of the existing cycle of low pay and insecure jobs to be

productive, successful citizens.

- Multimedia will be used to show what we mean rather than being limited to text and talk.
- 100% of our teachers will meet SBEC proficiencies and implement these proficiencies in the classroom.
- The board will actively support and provide budget to support the Technology Plan's hardware, software, staffing support, staff development, distance learning, and adequate infrastructure.

If our school is to fully participate in this new information age, we must plan for technology, and technology must become a vital part of the school's culture. We must recognize that technology, like education itself, serves as a catalyst for learning and change.

This plan is our road map for integrating technology into everyday classroom practice and into the organizational and management functions of the District. This plan will guide our teachers in implementing technology activities appropriate to individual needs.

This plan was revised on September 2006 by present administrators. It addresses five campuses and locations with a total population of 1195 students. As technology changes and the body of knowledge surrounding effective uses of technology evolve, we will update and revise our plan. A committee representing a wide range of views and beliefs developed the plan — members included students, parents, teachers, classified staff, administrators, community members, and business and industry partners. The technology planning team will address many fundamental questions including:

- What information-age education will best prepare students for the future?
- What kinds of technological skills do students need to meet the challenges of a rapidly changing world?
- How can technology tools empower students and staff?

Existing Conditions:

Inventory and Assessment of Present Technology

Before creating our Technology Plan, we conducted a comprehensive inventory of our existing telecommunications, computer, and networking facilities. We also include, as a foundation for the next section of our technology plan, detailed information about our existing configurations and uses of technology. We addressed the issues of compliance with 'The Children's Internet Protection Act' (CIPA), the 'Acceptable Use Policy' (AUP) and established that the district was in compliance with both and that Form 479 was on file. The AUP will be in the student and faculty handbooks for both to sign and return to the campus.

Existing Telecommunications Services and Equipment

Wide Area Network

With the help of ESC 14 and e-rate, we will replace the T-1 connection with a high speed wireless connection. The wireless connection will be region wide.

- T-1 Dedicated Circuit

Middle School

High School

- Fiber Connected Buildings

1 High School

2 Middle School Annex

3 Intermediate School

4 Merkel Elementary School

5 Tye Elementary School

6 Band Hall/ISS Building

Wireless Connections

Field House

Bus Barn/DAEP

- 1000 MB Cat 5

Administration Building

Middle to Intermediate Schools

Equipment
ADM MHS MMS MIS TES MES

Wireless internet conection.

0 1 0 1 0 0

Fiber

1 1 1 1 1 1

100 Cat

1 1 1 1 1 1

100 Fiber Transceivers

0 1 4 1 1 2

3Com 3300 Switch

1 0 0 0 0 0

3Com NBX Power Injector

1 0 2 0 0 0

Cisco 3725 Router

0 1 1 0 0 0

Cisco 2900XL Switch

0 0 2 1 4 2

D-Link Switch gig

0 0 1 1 0 1

Cisco 3500XL Switch

0 2 0 0 0 0

HP ProCurve 4000 Switch

0 1 1 0 0 0

Dell 3024 Switch

1 4 3 0 2 0

Dell 2508

0 1 0 0 0 0

100 Mbps switch 8-12 port

0 6 6 10 5 2

100 Mbps Switch < 8 port

0 4 8 2 20 20

Network Printer

6 12 7 3 5 5

Workstation Printer

3 15 20 10 15 15

Microsoft 2003 Server

2 0 0 0 0 0

Microsoft 2000 Server

0 0 2 0 0 0

Novell 6 Server

0 1 2 1 1 1

CSU/DSU

0 1 0 1 0 0

Workstations

9 220 140 40 58 64

Trendmicro AntiVirus

x x x x x x

GWAVA Spam Filtering

0 0 x 0 0 0

Netware Operating System

0 x x x x x

Present use of the Wide Area Network

The District is part of the West Texas Telecommunications Consortium Wide Area Network (WAN). All campuses, classrooms and labs as well as classrooms are connected to the Internet via our WTTC T1 connections. In addition, all campuses are connected to each other through our internal WAN, consisting of

wireless and fiber links. This allows for central management of administrative duties such as virus and e-mail management, and server monitoring and optimization. This centralized network management greatly reduces the staff required to maintain the District's networks. In addition, it enables teachers and administrators on each campus to streamline their attendance, grading, and administrative and PEIMS information processes. This also reduces staffing requirements by distributing workload.

We have replaced the wireless connection between our three main campus areas with single-mode fiber, and eliminated the wireless links to all campuses. The goal of this upgrade is increased reliability between the interactive systems. Also, portable distance learning units have been installed at the Tye campus, and the Middle and Elementary schools (RUS II Grant).

Wide Area Network (WAN) and Local Area Network (LAN)

Preparing Merkel ISD for the 21st century includes making a significant economic investment to electronically connect all parts of the school community. In the 21st century, students will need information literacy skills. Staff will need guidance in supporting technology-infused environments to achieve the goal of "anyone, learning anything, anytime or anywhere."

To create an ideal school environment where "an integrated voice, data, and video network extend to the classroom" is an exciting opportunity. However, the investment of time and dollars to do this is far beyond the financial resources of most school districts.

To fulfill connectivity goals, we have developed plans for implementing local and wide area networks. Given the appropriate technological tools, access to information, training, and support, staff, students, and community will have equitable access to the technological resources they need to solve problems creatively and efficiently. The plans are currently moving forward.

Merkel ISD is committed to provide a system that interconnects all campuses. We will strive for students, staff, administrators, and our community to use new communication tools and network-based information resources to exchange ideas, concerns, and conversations. No single "blueprint" exists for network implementation. Each school has its own physical constraints, functional needs, existing technology base, funding constraints, and outside support/resources. Standards for LAN/ WAN's features and capabilities do exist, however, and the District will adhere to these specifics.

Our basic model is to create a LAN within each school building or cluster of buildings with at least one network server for the LAN. We will interconnect the site LAN's with the District WAN using wireless technology or fiber optic cable. The District WAN will connect via Internet to the West Texas Telecommunications Consortium and ultimately, the Texas Education Agency. Wide Area Network services are resources provided by the telecommunications service providers and our bridges. The Merkel ISD plan calls for T-1 services delivered to the High School and Middle School and for these campuses connect to the other campuses. Merkel ISD WAN will connect all campuses. A variety of services will connect sites including wireless connections, fiber cable, and T-1 connection (will be replaced with wireless internet access). The WAN will allow District employees, students, and community to communicate internally (using e-mail) and access Internet resources. In addition, web-based services will be available for teachers, students, parents, and community.

Simplified Network Recommendations

The District network should meet these specifications:

- Ethernet for all computer connections possible.
- A "star" topology, where each computer is wired directly to a "hub site" within a building.
- Unshielded Twisted Pair (UTP) wiring that meets or exceeds the Electronic Industries Association (EIA) Category 5 standards for high-speed data communication service.
- T-1 (will be replaced with wireless internet access), fiber, or wireless connections will connect schools to the District WAN. The WAN will work as follows:
 - From a classroom or office site, a computer with an Ethernet card will attach to a switch.
 - A switch will attach to local area network (LAN).
 - The LAN will connect to a router.
 - The router will connect to a telecommunications service (fiber cable, T-1, or wireless radio connection) to the District's router.
 - The District's router will connect to the Texas State Technical College (TSTC).

- TSTC will connect to the West Texas Telecommunications Consortium (WTTC), which provides Internet services.
- WTTC will connect to the world of connected computers and servers.

To upgrade the WAN, we will need a fiber cable 100 MB connection to replace the existing 90 mb between Tye campus and the the high school. The 90 mb wireless between the middle school and the high school was replaced with fiber.(this was funded with e-rate funding for the 2005-2006 school year. The T-1 structure is routed as following:

- Tye Elementary is connected to Merkel High School via fiber connection with 100 mb connection speed. The connection continues to Merkel Middle School (where student record data information is stored).
 - Merkel High School is connected with the Merkel Middle School via fiber cable 100 MB connection. The high school has a 1.5 mb T-1 connection to TSTC in Sweetwater for Internet assess (This will be replaced with a wireless connection). This connection supplies both Tye and the high school with Internet access.
 - Merkel Intermediate and Merkel Elementary are connected to Merkel Middle School via fiber cable 100 MB where there is a T-1 connection (htis will be replace with a wireless connection) to TSTC in Sweetwater for Internet access.
 - Due to the addition of distance learning connection and network phone system to Tye Elementary School the 90mb connection was be updated to a fiber cable 100 MB connection. Also with the traffic flow between the high school and the middle school being so great, there are problems that were resolved with a more stable fiber connection. (this was funded with e-rate funding for the 2005-2006 school year.)
 - All campuses will have at least 100 MB fiber cable, 2006-2007.
- Region 14 will establish a wireless link with TSTC which will eliminate the need for the two T-1 lines to the high school and middle school.

Technology Needs:

Needs and Rationale

The Campus Technology Committee should develop a narrative that is no more than two, double-spaced, word-processed pages. Questions to address include:

- What is the current technology and how is it presently configured?
- How is technology integrated into classroom instruction, personal productivity, and management tasks?
- How is technology used to improve student achievement?
- How do we wish to use technology to achieve District performance outcomes?
- How is technology a part of other planning processes and other planning documents?
- How does the STaR and TUP align with the District's Plan?

Campus Technology Use Plans

Each campus shall create a Technology Use Plan (TUP) aligned with this Technology Plan. This shall be contained in the Campus Improvement Plan. The TUP process should be an integral part of current planning processes. To develop a TUP, sites shall:

1. Form a technology implementation committee
 2. Create and complete STaR and TUP Evaluation Chart. The chart identifies student learning outcomes, site priorities, activities, evaluation and management strategies, resources (people, software, hardware) and estimated costs.
 3. File your STaR and TUP Charts with the Assistant Superintendent by May 31 of each year.
- Technology will be a part of every learning environment. We will provide access to an array of information and instructional technology devices and instructional resources for every learner and staff member. We suggest a series of seven configurations for a school site to consider in its planning for future activities:

- Library/Media Center
- Technology Labs
- Classrooms that facilitate learning, exploring, and experimenting
- Teacher's computer work area for classroom management, administrative applications, and instructional planning
- Staff Work Center
- Cafeteria, Multipurpose Room, or Auditorium for audience-centered activities
- Administrative Center

- Wide Area Network

Configuration 1: Library/Media Center

This configuration serves as the hub for students, parents, and the community to access information. Here, users learn to manage technology resources. Students improve their productivity by having an opportunity to work on individual projects. The Center facilitates information exploration, resource gathering, and reading through these resources:

- A library/media specialist
- Readily available on-line resources
- Collections of instructional resources
- Support systems for curriculum activity
- Tools that are resident/shared checkout
- School-wide sets of resources for checkout

Access to these resources is flexible, available for individuals, small teams, and large groups.

Specific Technologies to consider for the Library/Media Center include:

- On-line access to the Internet
- Automated catalog and circulation
- Large screen television
- VCR and LCD
- Multimedia Stations
- Printer
- Network resources
- Copy machine
- Videoconferencing station
- Calculators
- Connections to school LAN/WAN and telephone
- Scanner

Possible equipment available for checkout in the Library/Media Center includes:

- Portable radio/stereo
- Digital cameras
- LCD high-lumen projector
- Camcorders
- Laptop Computers

Configuration 2: Technology Labs

This configuration supplies users with access to centralized tools. It supports curriculum activity and provides a work environment for short and long-term projects. The Technology Area enables us to schedule workspace that provides both small and large groups access to shared tools. This area may disappear as classrooms become better equipped.

Specific technologies to consider for a Multipurpose Area include:

- 25" TV monitor
- CD-ROM, DVD ROM
- 12-30 student workstations
- Portable projection system
- Printer
- Connections to school LAN/WAN, video networks, and IP telephone system
- Scanner
- Web-based on line learning
- Satellite-based learning
- Two-way distance learning classroom

Configuration 3: Classrooms

Classrooms equipped with communications and computer technology encourage learning, exploring, and experimenting. The high-tech classroom provides a point of organization for teachers for facilitated learning, facilitated instruction, resource management, project planning, learning assessment, communications, and demonstrations. This classroom features:

- High-speed network access to the WAN/LAN
- Direct connectivity to the Internet
- Adequate bandwidth of at least 100 MB
- Teacher computer
- Student workstations as needed
- Print/file sharing
- Projection devices, TV, VCR
- Programmable calculators as needed
- Equip classrooms with technology according to the curriculum needs of the students.

Configuration 4: Teacher's Computer Work Center

This configuration supplies a resource for managing the classroom, using administrative applications, and planning instructional activities.

- Ample workspace
- Computer with:
 - a. Digitized video/audio in and out
 - b. CD-ROM
 - c. Audio with speakers
 - d. Internet LAN/WAN capability
- E-mail
- Electronic grade book
- Administrative services such as attendance and student demographic information
- Printer
- IP telephone connectivity

Configuration 5: Staff Work Center

The Staff Work Center is centralized locally. It houses shared and resident tools and offers access to:

- Plan, create, and produce learning materials
- Reproduce materials
- Facsimile machine
- High-speed copy machine
- Scanner
- Telephone
- VCR
- Computer
- CD-ROM
- Color printer
- Laminator
- Binding machine
- Connections to school LAN/WAN, video networks and telephone system

Configuration 6: Cafeteria, Multipurpose Room, or Auditorium

This configuration provides a technology-rich environment for audience-centered, school-wide activities, site-wide productions, and demonstrations. This location supports entertainment, assemblies, and features:

- Flexible seating
- Large-screen projection
- Wall screen
- Sound system
- Rack amplifier, audio CD, audio tape player

- Video and computer projection system
- Controllable lighting
- VCR/LCD
- Access to Internet

Configuration 7: Administrative Center

This configuration provides technology tools for managing and supporting the educational effort. This configuration features applications for maintaining:

- Student records
- Attendance records
- Budgetary, accounting, and purchasing functions
- Building and grounds operations
- Curriculum development
- Counseling resources
- Extracurricular programs
- Standards for how tools are distributed, installed, and maintained
- Basic standards for WAN and LAN
- Access control, to preserve and protect information residing on the network
- Standards for applications and training to assure success with standardized software and hardware

Configuration 8: Wide Area Network (WAN) and Local Area Network (LAN)

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Wide Area Network services are resources provided by the telecommunications service providers and our bridges. The Merkel ISD plan calls for T-1 services delivered to the High School and for the High School to send a radio signal to the other campuses or be connected with fiber. The T-1 services will be replaced with a wireless connection to TSTC provided with e-rate funds from Region 14 Service Center.

Merkel ISD WAN will connect all campuses. A variety of services will connect sites including wireless connections, fiber cable, and T-1 connection (will be replaced with wireless connection). The WAN will allow District employees, students, and community to communicate internally (using e-mail) and access Internet resources. In addition, web-based services will be available for teachers, students, parents, and community.

Goals, Objectives, and Strategies

GOAL 1: Goal 1: Teaching and Learning We will integrate technology into all content areas and district operations with an emphasis on student centered learning. Students who have ‘learned how to learn’ will grow into adults who can succeed in an information-driven age. Emphasis will be placed on problem solving, data collection, information management, communication, and presentations to create a school where no child is left behind.

OBJECTIVE 1.1:

Objective 1.1 The Impact of Technology on Teacher Role and Collaborative Learning The teacher will serve as facilitator, mentor, and co-learner to encourage student-centered learning in communities of inquiry with business, industry, and higher education.

Budget Amount \$115,000.00

LRPT category: Teaching and Learning

E-Rate Correlates: ER01, ER02

NCLB Correlates: 01, 02, 03, 04a, 07, 08, 09, 10, 11, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
1.1.1	<p>1.1.1 The teacher will:</p> <p>a. Support the transformation of the teaching process by promoting student-centered learning within communities of inquiry to include business and industry.</p> <p>b. Provide students with opportunities to work collaboratively in communities of inquiry to solve problems and communicate with a variety of audiences.</p> <p>c. Provide parents and other community member's access to the infrastructure for educational resources.</p> <p>LEA LRPT Correlates: TL04, TL08</p>	<p>State: Original</p> <p>Status: In Progress</p>	Ongoing	Principal/Technology Coordinator/Assistant Superintendent	Community Response

OBJECTIVE 1.2:

Objective 1.2 Patterns of Teacher Use The teacher will use technology for research, lesson planning, multimedia and graphical presentations, simulations, and to correspond with experts, peers, and parents. There will be integration of evolving technologies to transform the teaching process by allowing for greater levels of interest, inquiry, analysis, collaboration, creativity and content production

Budget Amount \$40,000.00
 LRPT category: Teaching and Learning

E-Rate Correlates: ER01, ER02
 NCLB Correlates: 01, 04a, 07, 08, 09, 10, 11

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
1.2.1 : 1.2.1 The district will provide: a. Staff development for teachers, librarians, principals, and administrators that aligns with SBEC Technology Applications standards and supports federal legislation. b. Provide incentives for using new effective models, tools, and resources for teaching and learning. c. Ensure accessibility by all students to technology-based instruction and to adaptive/assistive devices, training and support, as appropriate. LEA LRPT Correlates: TL02, TL10, TL11	State: Original Status: In Progress	Ongoing	Principal/Assistant Superintendent/Superintendent/Board	Surveys from students and teachers/PDAS/Sign-in for staff development
1.2.2 : 1.2.2 The principals will: a. Assess and report the extent to which students meet technology proficiencies in the TEKS in the annual Texas STaR Chart	State: Original Status: In Progress	June 2004	Principal	STaR Chart completion to Assistant Superintendent

<p>Campus submission. b. Incorporate expectations for educators' and students' technology proficiencies into the Texas STaR Chart, Focus Areas and Levels of Progress and use the Texas School Library Standards to help students become information literate.</p> <p>LEA LRPT Correlates: TL02, TL10, TL11</p>				
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OBJECTIVE 1.3:
Objective 1.3 Frequency/Design of Instructional Setting The teachers will provide for regular weekly technology use for integrated curriculum activities utilizing various instructional settings (i.e.: classroom computers, libraries, labs, and portable technologies) and ensure that students have on-demand access to all appropriate technologies to complete activities that have been seamlessly integrated into all core curriculum areas

Budget Amount \$25,000.00
LRPT category: Teaching and Learning

E-Rate Correlates: ER01, ER02
NCLB Correlates: 01, 04a, 07, 08, 09, 10, 11

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
1.3.1 : 1.3.1 The principals will: a. Support the teacher's and librarian's use of evolving technologies for greater levels of collaboration, inquiry, analysis, creativity and content production and Incorporate technology use into the teacher and librarian appraisal system, where appropriate. b.	State: Original Status: In Progress	Ongoing	Principal	Observation and teacher feedback

	Provide on-demand access by staff and students to the best available technologies, including digital content in classrooms, libraries, and other appropriate sites. LEA LRPT Correlates: TL07, TL14				
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OBJECTIVE 1.4:
 Objective 1.4 Curriculum Areas The teachers will ensure that technology is integrated into all subject area TEKS, and that activities are separated by subject and grade levels.

Budget Amount \$105,000.00
LRPT category: Teaching and Learning

E-Rate Correlates: ER01, ER02
 NCLB Correlates: 01, 04a, 07, 08, 09, 10, 11

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>	
1.4.1	1.4.1 The teacher will: a. Integrate ongoing planning for technology into teaching and learning into all classrooms and libraries, and encourage participation of the community. b. Use student performance data and curriculum materials that are provided and managed electronically in instructional planning. c. Encourage students to work with peers and experts to evaluate information, analyze data and content in	State: Original Status: In Progress	Ongoing	Principal/Teachers	TAKS Scores/PDAS/ Daily Observations/Lesson plans/Unit test

	<p>order to problem solve. d. Encourage students to work collaboratively in communities of inquiry to propose, assess, and implement solutions to real world problems and communicate effectively with a variety of audiences. e. Use distance learning and digital content services for expanding curricular offerings and meeting the needs of all students. f. Use distance learning and digital content services to provide educational services and information about education to parents and other community members.</p> <p>LEA LRPT Correlates: TL06, TL09, TL12</p>				
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OBJECTIVE 1.5:
Objective 1.5 Technology Applications TEKS Assessment and Patterns of Student Us

Budget Amount \$100,000.00
LRPT category: Teaching and Learning

E-Rate Correlates: ER01, ER02
NCLB Correlates: 01, 04a, 07, 08, 09, 10, 11

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
1.5.1	1.5.1 The principals will: a. Comply with the standards of within each	State: Original Status: In	June 2005 Principals/Teachers	Lesson plans/Unit test/PDAS/TAKS Scores (Improve 10% form previous years in all

	<p>grade level cluster (K-2, 3-5, 6-8).that all Technology Applications TEKS will be met (with grade-level benchmarks for (K-8) established). b. Offer all Technology Applications courses will be offered with a minimum of 4 taught.</p> <p>LEA LRPT Correlates: TL01, TL05, TL13, TL15, TL16</p>	Progress			areas)
1.5.2 :	<p>1.5.2 The teachers will: a. Develop strategies for students to improve academic achievement to meet the TEKS. b. Ensure the achievement of students' technology proficiencies and pilot assessment of models for reporting the extent to which students meet the technology proficiencies in the TEKS according to the benchmarks for Technology Applications TEKS.</p> <p>LEA LRPT Correlates: TL01, TL05, TL13, TL15, TL16</p>	<p>State: Original</p> <p>Status: In Progress</p>	June 2005	Principals/Teachers	Lesson plans/Unit test/PDAS/TAKS Scores (Improve 10% form previous years in all areas)

GOAL 2: Goal 2: Educator Preparation and Development The district will provide opportunities for all the staff to participate in training and on-going support. We will provide staff development that is accessible, needs driven, multi-level, site-based, and community-involved.

OBJECTIVE 2.1:

Objective 2.1 Content of Training The district will provide training for the integration of new technology into teaching and learner-centered projects with the teachers regularly using online resources to enrich instruction.

Budget Amount \$120,000.00

LRPT category: Educator Preparation and Development

E-Rate Correlates: ER01, ER02

NCLB Correlates: 02, 04b

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
2.1.1:	2.1.1. The principal will: a. Provide training to integrate planning for technology into all classroom, library, and campus planning. b. Integrate the examination and analysis of data to support sound decision-making focused on student success. c. Integrate technology into instructional management. d. Initiate and implement policies regarding parental and community access to personnel and other non-secured data. e. Expand community access to school information. f. Establish policies to encourage expanded use of school facilities, including the library facility. g. Coordinate school and community resources for technology. h. Maintain client-centered district technical assistance and support for the integration of technology into teaching and learning and school operations.	State: Original Status: In Progress	Ongoing	Principals/Teachers	Lesson plans/Unit test/PDAS/TAKS Scores

	LEA LRPT Correlates: EP02, EP03, EP04, EP06, EP07				
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OBJECTIVE 2.2:
Objective 2.2 Capabilities of Educators and Administrators The administrators will recognize and identify exemplary use of technology in instruction to ensure the integration of appropriate technologies to maximize learning and teaching.

Budget Amount \$34,000.00
LRPT category: Educator Preparation and Development

E-Rate Correlates: ER01, ER02
NCLB Correlates: 02, 04b

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
2.2.1:	2.2.1 The principal will: a. Strive for 100 % of teachers to meet SBEC proficiencies and implementation in the classroom. b. Involve and educate the school community around issues of technology integration. c. Recognizes and identifies exemplary use of technology in instruction. d. Ensures integration of appropriate technologies to maximize learning and teaching. LEA LRPT Correlates: EP08	State: Original Status: In Progress	Ongoing	Principals/Teachers	Lesson plans/Unit test/PDAS/TAKS Scores

OBJECTIVE 2.3:
Objective 2.3 Models of Professional Development with Levels of Understanding and Patterns of Use The district recognizes the need for long term and ongoing professional development to create communities of inquiry and knowledge building.

Budget Amount \$115,000.00
LRPT category: Educator Preparation and Development

E-Rate Correlates: ER01, ER02
NCLB Correlates: 02, 04b

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
2.3.1:	2.3.1 The teacher will encourage: Anytime, anywhere learning available through a variety of delivery systems to include	State: Original Status: In Progress	Ongoing	Principals/Teachers	Lesson plans/Unit test/PDAS/TAKS Scores

individually guided activities and work toward the goal of the invention stage learning.				
LEA LRPT Correlates: EP05, EP05, EP09				

OBJECTIVE 2.4:
Objective 2.4 Technology Budget Allocated to Technology Professional Development The district will provide ongoing, sustained, high quality professional development for teachers, principals, administrators, and school library media personnel to further the effective use of technology in the classroom or library media center.

Budget Amount \$105,000.00
LRPT category: Educator Preparation and Development

E-Rate Correlates: ER01, ER02
NCLB Correlates: 02, 04b

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
2.4.1: 2.4.1 The district will: a. Budget as much as allowable to staff development with a target of 30% of the technology budget. b. Provide personnel to coordinate activities funded through the Ed Tech program with technology-related activities supported with funds from other Federal, State, and local sources. LEA LRPT Correlates: EP01, EP09	State: Original Status: In Progress	June 2007	Board/Superintendent/Assistant Superintendent	Budget

GOAL 3: Goal 3: Administrative and Support Services The District will provide the necessary support and infrastructure to meet technology goals and objectives. The district created a position of Assistant Superintendent in 2002 to assist the already created Technology Coordinator. Together these people will coordinate data processing, instructional technology, copier services, library technology, and the computer labs.

OBJECTIVE 3.1:
Objective 3.1 Vision and Planning Teachers/administrators will develop a campus technology plan that is approved by the board and supported by superintendent.

Budget Amount \$1,500.00
LRPT category: Leadership, Administration and Support

E-Rate Correlates: ER01, ER02
NCLB Correlates: 05, 06

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
<p>3.1.1: 3.1.1 The Technology Campus Plan will: a. Be collaboratively developed with guiding policy and practice and be regularly updated. b. Address Technology Application, TEKS, and higher order teaching and learning. c. Be focused on student success and based on needs, research, proven teaching and learning principles. d. Encourage administrators to use technology for planning and decision making. e. Provide and assess professional development for integrating technology into teaching and learning, instructional management, and administration.</p> <p>LEA LRPT Correlates: LAS01, LAS02, LAS03, LAS04, LAS05</p>	<p>State: Original</p> <p>Status: In Progress</p>	<p>Ongoing</p>	<p>Assistant Superintendent/Technology Coordinator/Principals</p>	<p>Plan Evaluation</p>

OBJECTIVE 3.2:
Objective 3.2 Technical and Administrative Staffing Support The District will provide supporting resources such as staff, services, software, other resources as needed to ensure successful and effective uses of technology

Budget Amount \$50,000.00
LRPT category: Leadership, Administration and Support

E-Rate Correlates: ER01, ER02
NCLB Correlates: 05, 06

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
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3.2.1:	<p>3.2.1 The District will provide: a. A centrally located technical support person (with a response time less than 24 hours with a goal for the response time of 4 hours). b. At least one technical staff to 500 computers (with the goal of one technical staff to 350 computers). c. A central technology support with remote management software tools. d. A full-time district level Technology Coordinator and Assistant Superintendent for Technology (with a goal of a dedicated campus-based instructional technology support staff of one per campus or additional staff as needed).</p> <p>LEA LRPT Correlates: LAS07</p>	<p>State: Original</p> <p>Status: In Progress</p>	Ongoing	Board/Superintendent	Personnel records/Technology Work orders
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OBJECTIVE 3.3:
Objective 3.3 Budget and Fund The principal will plan for a campus budget of needed hardware and software purchases, sufficient staffing support, costs for professional development, incentives for professional development, facilities, and other ongoing costs.

Budget Amount \$65,700.00
LRPT category: Leadership, Administration and Support

E-Rate Correlates: ER01, ER02
NCLB Correlates: 05, 06

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
3.3.1:	<p>3.3.1 The District will: a. Appropriate the budget to support the</p> <p>State: Original</p> <p>Status: In</p>	Ongoing	Board	Personnel records/Budget/Equipment inventory

	<p>campus and district technology plan.</p> <p>b. Supply personnel to apply for federal programs, technology allotment, grants, E-Rate discounts, business partnerships, foundations. c. Locally supplement the budget as needed to meet the plan needs.</p> <p>d. Supply personnel to investigate multiple financial arrangements for securing and maintaining workstations, infrastructure and other technologies.</p> <p>LEA LRPT Correlates: LAS07</p>	Progress			
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GOAL 4: Goal 4: Infrastructure for Technology The District will continue to technologically enhance equipment, facilities, and provide connectivity to provide a state-of-the-art school environment where no child will be left behind.

OBJECTIVE 4.1:
 Objective 4.1 Students per Computer Design, install, and maintain a technology and telecommunications infrastructure into all classrooms, libraries, and campuses.

Budget Amount \$643,820.00
LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02
 NCLB Correlates: 03, 12

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
4.1.1: 4.1.1 The District will strive to: a. Meet the technology equipment target of a student to workstation* ratio of 4:1 and target for technology equipment of a student to-workstation* ratio of 1:1 to ensure that access is available as appropriate. b.	State: Original Status: In Progress	July 2008 (depending on e-rate funding)	Board/ Superintendent/Assistant Superintendent/Technology Coordinator	Inventory data

<p>Provide on-demand access for every student to workstations and/or the best available technologies. c. Meet the technology equipment target of all professional educational staff to a workstation ratio of 1:1 to ensure that access is available as appropriate. d. Replace or reposition obsolete technology and infrastructure on a scheduled basis to ensure maximum efficiency and with the target of replacement cycle established by district/campus of 3 years. e. For the 2003-2004 School Year: 1. 24 computers were replaced in the Middle School Computer Lab. 2. 22 computers were replaced at Tye Elementary Computer Lab. 3. 21 computers were replaced for Tye Elementary teacher workstations. 4. 22 computers were replaced at one of three High School Computer Labs. 5. 11 computers were replaced for the Intermediate School teacher workstations. 6. 2 computers were replaced in the Middle School Library. 7. 1 File servers was replaced at Tye Elementary School. 8. IP phone system was installed with voice mail accessible to teacher workstations. f. For the 2004-2005 School Year: 1. 25 computers will be replaced in the high school library. (\$20,000) 2. 25 computers will be replaced in one of three high school one high school computer labs. (\$20,000) 3. 25 computers will be replaced in the Merkel Elementary computer lab. (\$20,000) 4. 25 computers will be replaced in the intermediate computer lab. (\$20,000) 5. 2 DHCP File Server to connect 6 locations and 600 computers to the internet, LAN/WAN from Dell Computer (\$13,425) 6. Internal switches, routers, connection for wireless and</p>				
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<p> fiber lan/wan network (\$23,607) 7. Continue to provide phone services to all campuses. (\$33,000) 8. Continue to provide cellular services to administration. (\$6,300) 9. Continue to provide internet service to all campuses. (\$30,000) 10. Provide staff development to enhance word processing skills, spreadsheet, skills video skills, DVD ROM/CD-ROM skills, faculty and staff productivity skills, presentation and multimedia skills, and telecommunications skills. (\$10,000) 11. Continue to provide salaries for technology support personnel. (\$50,000) g. For the 2005-2006 School Year: 1. Replace 25 computers in the high school internet lab. (\$25,000) 2. Replace 7 central office computer. (\$10,000) 3. Replace 25 computers in the Middle School Library. (\$25,000) 4. Replace 25 various teacher computers across campuses. (\$25,000) 5. Replace file server at middle school. (\$6,000) 6. RUS II Grant with service center. a. Merkel Elementary Portable video system {\$2,800} 10 lap top computers, wireless, access point, cart {\$4,600} Cisco network router (select type below) Cisco 3725 {\$2,000} b. Merkel High School Portable video system {\$2,800} 10 lap top computers, wireless, access point, cart {\$4,600} Cisco network router (select type below) Cisco 3725 {\$2,000} Cisco 3725 2 T1 ports {\$2,320} c. Merkel Intermediate School Portable video system {\$2,800} 10 lap top computers, wireless, access point, cart {\$4,600} Cisco network router (select type below) Cisco 3725 {\$2,000} d. Merkel Middle School Audio Visual equipment {\$1,400} Cisco network router (select type </p>				
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<p>below) Cisco 3725 {\$2,000} Cisco 3725 2 T1 ports {\$2,320} 10 lap top computers, wireless, access point, cart {\$4,600} e. Tye Elementary 10 lap top computers, wireless, access point, cart {\$4,600} Cisco network router (select type below) Cisco 3725 {\$2,000} Cisco 3725 2 T1 ports {\$2,320} 7. Continue to provide phone services to all campuses. (\$33,000) 8. Continue to provide cellular services to administration. (\$6,300) 9. Continue to provide internet service to all campuses. (\$30,000) 10. Provide staff development to enhance word processing skills, spreadsheet, skills video skills, DVD ROM/CD-ROM skills, faculty and staff productivity skills, presentation and multimedia skills, and telecommunications skills. (\$10,000) 11. Continue to provide salaries for technology support personnel. (\$50,000) g. For the 2006-2007 School Year: 1. Replace 25 computers in the Middle School Library. (\$25,000) 2. Replace 25 various teacher computers across campuses. (\$25,000) 3. Replace file server at middle school. (\$6,000) 4. RUS II Grant with service center. Upgrade to Cisco 3725 Routers Portable Video system at High School Tanberg Integrator equipment at the Intermediate and Tye campuses 5. Continue to provide phone services to all campuses. (\$27,000) 6. Continue to provide cellular services to administration. (\$9,200) 7. Continue to provide internet service to all campuses. (\$33,000) 8. Provide staff development to enhance word processing skills, spreadsheet, skills video skills, DVD ROM/CD-ROM skills, faculty and staff productivity skills, presentation and multimedia</p>				
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<p>skills, and telecommunications skills. (\$10,000) 9. Continue to provide salaries for technology support personnel. (\$60,000) 1o. 2 DHCP File Server to connect 6 locations and 600 computers to the internet, LAN/WAN from Dell Computer (\$13,425) 11. IP phone system needed for high school and Tye Elementary with voice mail accessible to teacher workstations. (\$55,000) 12. Internal switches, routers (\$5000) 13. Upgrade wiring at all campuses as needed. (\$15,000) h. For the 2007-2008 School Year: 1. Replace 50 computers in Elementary School Labs. (\$75,000) 2. Replace 25 various teacher computers across campuses. (\$25,000) 3. Replace file server at high school. (\$6,000) 4. Continue support for the RUS I&II Grant with service center. (Cisco 3725 Routers Portable Video system at High School Tanberg Integrator equipment at the Intermediate and Tye campuses) 5. a. Continue to provide phone services to all campuses. (\$27,000) b. Continue to provide 1 gigabit connection to Tye Elementary (second year of a three year contract)(\$52,313) 6. Continue to provide cellular services to administration. (\$9,200) 7. Continue to provide internet service to all campuses. (\$33,000) 8. Provide staff development to enhance word processing skills, spreadsheet, skills video skills, DVD ROM/CD-ROM skills, faculty and staff productivity skills, presentation and multimedia skills, and telecommunications skills. (\$10,000) 9. Continue to provide salaries for technology support personnel. (\$60,000) 1o. 1 DHCP File Server to connect 6 locations and 600</p>				
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<p>computers to the internet, LAN/WAN from Dell Computer (\$6,500) 11. Internal switches, routers (\$5000) 12. Novell Network software (\$3000) 13. ESC 14, with the help of e-rate, will provide wireless internet access to our school and throughout the region. 14. Provide one teacher on each campus with one promethean board (\$25,000). i. For the 2008-2009 School Year: 1. Replace computers in the High School lab. (\$25,000) 2. Replace 50 various teacher computers at elementary campuses. (\$50,000) 3. Replace file server at Tye school. (\$6,000) 4. Continue support for the RUS I & II Grant equipment with service center. 5. a. Continue to provide phone services to all campuses. (\$27,000) b. Continue to provide 1 gigabit connection to Tye Elementary (second year of a three year contract)(\$52,313) 6. Continue to provide cellular services to administration. (\$9,200) 7. Continue to provide internet service to all campuses. (\$33,000) 8. Provide staff development to enhance word processing skills, spreadsheet, skills video skills, DVD ROM/CD-ROM skills, faculty and staff productivity skills, presentation and multimedia skills, and telecommunications skills. (\$10,000) 9. Continue to provide salaries for technology support personnel. (\$60,000) 10. 1 DHCP File Server to connect 6 locations and 600 computers to the internet, LAN/WAN from Dell Computer (\$6,500) 11. Internal switches, routers (\$5000) 12. Novell Network software (\$3000) 13. Continue support of ESC 14's wireless connection to our school and to the region. 14. Provide one teacher of each campus with one promethean</p>					
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<p>board (\$25,000). g. For the 2009-2010 School Year: 1. Replace 25 computers in the Intermediate School Lab. (\$25,000) 2. Replace 25 various teacher computers across campuses. (\$50,000) 3. Replace file server at Central Office. (\$6,000) 4. Continue support for the RUS I & II Grant equipment service center. 5. Continue to provide phone services to all campuses. (\$27,000) 6. Continue to provide cellular services to administration. (\$9,200) 7. Continue to provide internet service to all campuses. (\$33,000) 8. Provide staff development to enhance word processing skills, spreadsheet, skills video skills, DVD ROM/CD-ROM skills, faculty and staff productivity skills, presentation and multimedia skills, and telecommunications skills. (\$10,000) 9. Continue to provide salaries for technology support personnel. (\$60,000) 10. 2 DHCP File Server to connect 6 locations and 600 computers to the internet, LAN/WAN from Dell Computer (\$6500) 11. Internal switches, routers (\$5000) 12. Novell Network software (\$3000) 13. Wireless connection to TSTC to replace T-1 lines.</p> <p>LEA LRPT Correlates: I03, I04, I05, I06</p>				
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OBJECTIVE 4.2:
Objective 4.2 Internet Access Connectivity/Speed, LAN/WAN and Distance Learning There will be internet access to computer workstations for all students and staff in libraries, school offices, and in other work areas, ensuring accessibility for disabled students and staff as required by the ADA. The district will provide web based /on-line learning available at the campus with two-way interactive video distance learning capabilities available to the campus in multiple classrooms.

Budget Amount \$100,000.00
LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02
NCLB Correlates: 03, 05, 12

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
4.2.1: 4.2.1 The District will provide:	State:	December	Board/	Inventory

	<p>a. Direct connectivity to the Internet in all rooms on all campus with adequate bandwidth to each classroom over the local area network (at least 100 MB or fiber network LAN). b. For personnel to design, install, and maintain a technology and telecommunications infrastructure for communications and service to ensure equitable access for all campuses and the community. c. For the 2003-2004 School Year: 1. Wireless network installed and maintained for WAN for all campuses. 2. High-speed access to the Internet for students and staff. 3. High-end servers, such as Novell or NT servers, serving multiple applications 4. Maintain IP Phone System installed for Elementary, Intermediate, Middle, and Administration. d. For the 2004-2005 School Year: 1. Fiber Network connection between Merkel Middle, Intermediate, and Elementary Campus to Merkel High School and continue network to Tye via wireless, distance is 5400 feet. This will allow video transfer, connection with distance learning lab, high speed connection to internet, data files, and server software. (\$16,000) 2. Wireless Network connection between Tye Elementary Campus and Merkel High School Distance is 8 miles. This will allow video transfer, connection with distance learning lab, high speed connection to internet, data files, and server software. (\$22,687) 3. Maintain the distance learning lab located at the high school. 4. Provide for portable distance learning equipment to be located at the Middle School/Intermediate, Merkel Elementary, and Tye Elementary. (\$48,000) (\$39,000 paid by with RUS Grant with Region 14, \$8,100</p>	<p>Original Status: In Progress</p>	<p>2008 (depending on e-rate funds)</p>	<p>Superintendent/Assistant Superintendent/Technology</p>	<p>data</p>
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<p>local funds) 5. The library will continue to provide commonly used technologies such as computers with projection devices, TVs, VCRs, programmable calculators, digital cameras, scanners, document cameras, projectors, digital video cameras, with the long range goal to have telephones in each classroom. (\$5,000) d. For the 2005-2006 School Year:</p> <p>1. Fiber Network connection between Merkel Middle, Intermediate, and Elementary Campus to Merkel High School and continue network to Tye via wireless, distance is 5400 feet. This will allow video transfer, connection with distance learning lab, high speed connection to internet, data files, and server software. (\$16,000) 2. Wireless Network connection between Tye Elementary Campus and Merkel High School Distance is 8 miles. This will allow video transfer, connection with distance learning lab, high speed connection to internet, data files, and server software. (\$22,687) 3. Maintain the distance learning lab located at the high school. 4. The library will continue to provide commonly used technologies such as computers with projection devices, TVs, VCRs, programmable calculators, digital cameras, scanners, document cameras, projectors, digital video cameras, with the long range goal to have telephones in each classroom. (\$5,000) e. For the 2006-2007 School Year:</p> <p>1. The library will continue to provide commonly used technologies such as computers with projection devices, TVs, VCRs, programmable calculators, digital cameras, scanners, document cameras, projectors, digital video cameras, with the long range</p>				
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<p>goal to have telephones in each classroom. (\$5,000) 2. Maintain the distance learning lab located at the high school. f. For the 2007-2008 School Year: 1. The library will continue to provide commonly used technologies such as computers with projection devices, TVs, VCRs, programmable calculators, digital cameras, scanners, document cameras, projectors, digital video cameras, with the long range goal to have telephones in each classroom. (\$5,000) 2. Maintain the distance learning lab located at the high school. 3. ESC 14 ,with the help of e-rate, will provide wireless internet access to our school and to the region schools. 4. Five promethean boards will be provided, (one to each campus). (\$25,000) 5. Maintain the fiber connection between Merkel and Tye. (\$13,000). g. For the 2008-2009 School Year: 1. The library will continue to provide commonly used technologies such as computers with projection devices, TVs, VCRs, programmable calculators, digital cameras, scanners, document cameras, projectors, digital video cameras, with the long range goal to have telephones in each classroom. (\$5,000) 2. Maintain the distance learning lab located at the all schools. 3. Provide 5 promethean boards, (one for each campus) (\$25,000). h. For the 2009-2010 School Year: 1. The library will continue to provide commonly used technologies such as computers with projection devices, TVs, VCRs, programmable calculators, digital cameras, scanners, document cameras, projectors, digital video cameras, with the long range goal to have telephones in each</p>					
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classroom. (\$5,000) 2. Maintain the distance learning lab located at the high school. 3. Replace T-1 connections to TSTC with wireless connection.				
LEA LRPT Correlates: I01, I02, I03, I07, I08, I09				

Budget

Total amount of Title II, Part D formula funds received for the current year of this plan: \$3,426.00

Method of application for formula funds: Local Application

Budget year 2008		
Budget item	Cost	Funding Sources with amount per source
Staff Development	\$121,900.00	(Total funds \$3426.00)\$900.00 Title II Part D staff development 1% \$10,000 Local Funds 8% \$95,000 Local Funds 78% \$16,000 Local Funds 13%
Telecommunications & Internet Access	\$113,940.00	\$88,428.00 E-Rate 74% \$25,511.00 Local Funds 26%
Materials & Supplies	\$75,000.00	Materials \$50,000.00 Local Funds 100%
Equipment	\$87,500.00	\$37,000.00 Technology Fund 42% \$49,600.00 Local Funds 57% \$900.00 Title II Part D 1%
Maintenance	\$100,000.00	Technology Support Personnel Local Funds 100%
Miscellaneous Expenses	\$25,000.00	Miscellaneous supplies Local funds 100%
Total	\$523,340.00	

Budget year 2009		
Budget item	Cost	Funding Sources with amount per source
Staff Development	\$121,900.00	900.00 Title II Part D 1% \$10,000 Local Funds 8% \$95,000 Local Funds 78% \$16,000 Local Funds 13%
Telecommunications & Internet Access	\$113,940.00	\$88,428.00 E-Rate 74% \$25,511.00 Local Funds 26%
Materials & Supplies	\$75,000.00	Materials \$50,000.00 Local Funds 100%
Equipment	\$112,500.00	Technology Support Personnel Local Funds 100%
Maintenance	\$100,000.00	Technology Support Personnel Local Funds 100%
Miscellaneous Expenses	\$25,000.00	Miscellaneous supplies Local funds 100%

Total	\$548,340.00	
Budget year 2010		
Budget item	Cost	Funding Sources with amount per source
Staff Development	\$121,900.00	\$900.00 Title II Part D 1% \$10,000 Local Funds 8% \$95,000 Local Funds 78% \$16,000 Local Funds 13%
Telecommunications & Internet Access	\$113,940.00	\$88,428.00 E-Rate 72% \$25,511.00 Local Funds 28%
Materials & Supplies	\$75,000.00	Materials \$50,000.00 Local Funds 100%
Equipment	\$112,500.00	Technology Support Personnel Local Funds 100%
Maintenance	\$100,000.00	Technology Support Personnel Local Funds 100%
Miscellaneous Expenses	\$25,000.00	Miscellaneous supplies Local funds 100%
Total	\$548,340.00	

Evaluation

Evaluation Process:

Each campus shall create a Technology Use Plan (TUP) aligned with this Technology Plan. This shall be contained in the Campus Improvement Plan. The TUP process should be an integral part of current planning processes. To develop a TUP, sites shall:

1. Form a technology implementation committee
2. Create and complete STaR and TUP Evaluation Chart. The chart identifies student learning outcomes, site priorities, activities, evaluation and management strategies, resources (people, software, hardware) and estimated costs.
3. File your STaR and TUP Charts with the Assistant Superintendent by May 31 of each year.

Needs and Rationale

The Campus Technology Committee should develop a narrative that is no more than two, double-spaced, word-processed pages. Questions to address include:

- What is the current technology and how is it presently configured?
- How is technology integrated into classroom instruction, personal productivity, and management tasks?
- How is technology used to improve student achievement?
- How do we wish to use technology to achieve District performance outcomes?
- How is technology a part of other planning processes and other planning documents?
- How does the STaR and TUP align with the District's Plan?

Evaluation Method:

Evaluation of the Technology Plan will be conducted through a combined effort of the District Technology Committee and the Campus Technology Committee. The classroom teachers will have an integral part in the evaluation process. The evaluation information will be presented to the Campus Technology Committee and District Technology Committee on a yearly basis for evaluation. This information will be used to adapt the Technology Plan as needed.

The following assessment strategies are recommended:

1. We will certify student and staff learners as they progress through the empowerment levels (Emerging, Proficient, and Expert, as indicated on the Learner Development Charts, below).

2. The Principals will survey the staff to determine:
 - a. Were the goals of the District Technology Plan and Campus Technology Plan met?
 - b. What is in progress?
 - c. What has been implemented?
 - d. What changes do we need to make?

3. The Assistant Superintendent and Campus Principals will determine:
 - a. Is hardware and software used effectively?
 - b. What has been the learner's response?
 - c. What new areas need to be added?
 - d. What areas need to be modified?

4. The Technology Coordinator and Campus Technician will inventory and update the inventory of all equipment every year and determine how well we are achieving District and Campus Goals with the aide of the T-Star District Rating.

5. Each school will complete or update its technology use plan by May 31 of each year.

6. Each school will compile evidence that staff development and other training programs are appropriate to the campus by May 31 of each year.

7. Principals will provide evidence to ensure that all students have at least 90 minutes of access to the workstations and the Internet per week. The data should prove that the students can use search engines and other resources from the TLC. (Projects that include dynamic products, analyzing data, decision making, selecting solutions from alternatives, implementing solutions, etc.)

8. Provide evidence that at-risk students are sought out and encouraged to take concurrent college classes through the distance-learning lab. (15% of seniors graduating with 12 or more college hours of credit by the school year 2009-2010)

9. The principal will provide evidence that all teachers are integrating technology into the curriculum and shifting from teacher-centered to learner-centered education taking into consideration abilities, learning styles, and social context (evidence will include lesson plans, personal observation, projects, etc.)

10. The Campus Site Based Committee will provide baselines for test data. The counselor will provide disaggregated data as evidence that achievement scores and reading inventories have increased. The achievement gap between subgroups will reflect a 10% closure when compared to the baseline established by the Campus Site Based Committee by the year of school year of 2009-2010.

Learner Development Charts

Technology Skill Area

Emerging

A place to begin.

Proficient All of the emerging level plus:

Expert All of the emerging and proficient levels plus:

Basic Computer Skills

Provide evidence that at-risk students are sought out and encouraged to take concurrent college classes through the distance-learning lab. (15% of seniors graduating with 12 or more college hours of credit by the school year 2009-2010)

Turn on/off/load/save/ open/print in selected platform (Windows)

Enter text/manipulate text-based documents

Use word processing software

Save and back up documents and files

Load, modify, and/or personalize software

Import graphic files, produce information in a graphics-rich format, such as a presentation, newsletter or flyer, using an integrated software program or a specific publishing program

Develop a logical file management system for storing and retrieving documents

Create graphic files from a draw and paint application or from digital photos
Create presentations, newsletters, or other specialized applications
Produce letters and certificates, using mail merge
Teach learners the use of computer technology
Improve job specific strategies by effective use of technology
Choose and design classroom and/or job specific applications

Spreadsheet Skills

Perform simple spreadsheet operations, using an integrated software package
Create job-specific materials, using a spreadsheet

Perform intermediate spreadsheet operations, including creating charts to illustrate relationship of data
Integrate spreadsheets with reports

Import data from other applications
Use computer generated spreadsheet as an integral part of job-specific tasks
Teach learners the use of the spreadsheet technology in instructional and job-specific settings

Video Skills

Set-up/load/use commercial tape on a VCR/TV
Record off-air or off-cable
Choose from and create classroom and/or job-specific applications of cable and Instructional Television

Use camcorder
Perform simple editing chores

Edit, add titles, and add sound to camcorder output
Demonstrate skills in finding and using satellite, cable, off-air, commercial, or student-made video in instruction and other job-specific activities

DVD ROM/CD-ROM Skills

Set-up and play DVD ROM and CD-ROMs

Use DVD ROM remote control and bar codes
Choose classroom or job-specific applications

Create interactive presentations using DVD ROM and computer
Select needed information (text and graphics) from CD-ROMs

Faculty and Staff Productivity Skills

Use classroom record-keeping software to keep a database of student projects, grades, and records
Produce reports of progress for students and parents
Produce lesson plans

Use a file information system to access student data
Use classroom record-keeping to track book check-out, special program participation, and special needs
Create templates
Create bulletin board materials, posters, and other display charts

Import data files from a file information system to produce reports, mail-merge letters, and certificates
Use classroom record-keeping software to link instruction and assessment results
Experiment with electronic portfolios
Help staff apply productivity software to improve instruction, appraisals, and communication

Presentation and Multimedia Skills

Use LCD panel projector and computer or a computer to television device
Use presentation software to display graphics and text
Access information on CD-ROM

Create interactive presentations
Set up multimedia hardware and software
Support classroom instruction through multimedia authoring software, which may integrate video, sound, graphics, and text

Choose and use commercial presentations that are built upon software such as PowerPoint
Teach staff and students to create multimedia learning materials

Telecommunications

Communicate with others using e-mail, bulletin boards, user groups
Using an on-line service, perform simple searches for people or information to support curriculum or job-related projects
Use databases and networked resources (CD-ROM library catalogues, and museums) as reference tools
Download graphics and text from on-line resources
Develop Internet skills through the use of such programs and protocols as FTP and HTTP. Select Internet news groups that support instruction or special interests
Teach learners appropriate ethical and safe uses of Internet resources
Use Internet resources to help teachers devise instructional strategies and curriculum content
Use primary language and career-related resources as teaching materials

Assist students and staff in the use of Internet resources to access, analyze, apply, and create information effectively
Teach learners to create "home page" content accessible to others
Use telecommunications as a resource for office and site communication and for teacher communication with parents, community, and special interest groups
Conduct contests, and other activities around the world

MERKEL ISD does not discriminate on the basis of sex, disability, race, color, age, or national origin in its educational programs, activities, or employment as required by Title IX, Section 504 and Title VI.



Texas Education Agency

2008 Technology Plan Approval Certificate

The Texas Education Agency is certified by the Schools and Libraries Division (SLD) to approve technology plans for participation in the Schools and Libraries Universal Service Program.

MERKEL ISD (221904)

has a technology plan that has met the standards and criteria outlined by the SLD. This approval is effective for 3 years.

This plan was approved on April 15, 2008.

A handwritten signature in blue ink, appearing to read "Anita Givens".

Anita Givens
Deputy Associate Commissioner
Standards and Alignment

