

Garland ISD Technology Plan

2007 - 2010

Curtis Culwell

Superintendent

DISTRICT PROFILE

ESC Region 10
City, State Zip Garland, TX 750427108
Phone (972) 494-8201
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County District Number 057909

Number of Campuses	71
Total Student Enrollment	56931
District Size	50,000 and over
Percent Econ. Disadvantaged	47.71%

Technology Expenditures	\$65,730,000.00										
Technology budgets reported in plan by category	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">Teaching and Learning Budget</td> <td style="text-align: right;">\$8,665,000.00</td> </tr> <tr> <td style="padding-left: 20px;">Educator Preparation and Development Budget</td> <td style="text-align: right;">\$750,000.00</td> </tr> <tr> <td style="padding-left: 20px;">Leadership, Administration and Support Budget</td> <td style="text-align: right;">\$3,100,000.00</td> </tr> <tr> <td style="padding-left: 20px;">Infrastructure for Technology Budget</td> <td style="text-align: right;">\$53,215,000.00</td> </tr> <tr> <td style="padding-left: 20px;">Total:</td> <td style="text-align: right;">\$65,730,000.00</td> </tr> </table>	Teaching and Learning Budget	\$8,665,000.00	Educator Preparation and Development Budget	\$750,000.00	Leadership, Administration and Support Budget	\$3,100,000.00	Infrastructure for Technology Budget	\$53,215,000.00	Total:	\$65,730,000.00
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Educator Preparation and Development Budget	\$750,000.00										
Leadership, Administration and Support Budget	\$3,100,000.00										
Infrastructure for Technology Budget	\$53,215,000.00										
Total:	\$65,730,000.00										
Technology Expenditure Per Pupil	\$1,154.56										
Number of Campuses with Direct Connection to Internet	71										
Percentage of Campuses with Direct Connection to Internet	100.00%										
Number of Classrooms with Direct Connection to Internet	3700										
Percentage of Classrooms with Direct Connection to Internet	100.00%										
Computer/Student Ratio	10 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	75										
Percentage of campuses that have completed the Texas Campus STaR Chart	100.00 %										

Plan Introduction

Plan Last Edited 03/28/2008

Plan status:	approved
Years Included in the Plan:	2007 - 2010
Number of years covered by the plan:	3
Years Approved for the Plan:	2007 - 2010
Number of approved years:	3

This is an Updated plan. The plan editor entered these comments about the changes since last year's plan:

Updated Strategies

Technology Planning Committee

Superintendents Cabinet

Curtis Culwell - Superintendent

Gary Reeves - Assistant Superintendent of Administration

Jim Hysaw - Executive Administrator of Technology

John Washington - Assistant Superintendent of Student Services

James A Smith - Assistant Superintendent of Business

Phyllis Parker - Assistant Superintendent of Educational Operations

Marvin Roden - Administrative Assistant to Superintendent

Reavis Wortham - Communications Department

Executive Summary

Background

Garland ISD has a student population of 56,931 students, serving Early Childhood through 12th grade. The student population is ethnically diverse with the district serving many different languages. The percentage of students considered English Limited Proficient is 23.3%.

The ethnic population percentages include:

Ethnic Group Percentage

American Indian / Alaskan Native .5%

Asian / Pacific Islander 7.6%

Black / Not of Hispanic Origin 18.7%

Hispanic 40.6%

White / Not of Hispanic Origin 32.5%

Garland ISD has 3,805 professional teachers working with our students. Over 24% of the certified professional staff members have master's degrees, and 1% hold doctorates. The average educator in the district has 10.4 years of teaching experience. At the high school level, that average rises to 12.8 years.

Technology Vision Statement

The Vision of Garland Independent School District is that exposure and access to technology be fully integrated with the educational process, providing robust access to information and learning resources for all students, parents, teachers, and administrators in the Garland ISD community.

The Planning Effort

The Executive Administrator of Technology is ultimately responsible for implementing technology throughout the district but is supported directly by the Superintendent's Cabinet. They provide ongoing technology decision-making support related to the detailed and tactical implementation of Technology Bond projects. This committee considers tactical planning issues such as detail scope, schedule, budget, and precedence, of slated technology implementation projects. The Superintendent's Cabinet also directs the Executive Administrator of Technology to survey the district to gather the instructional technological needs of the students and teachers for the future.

The Garland ISD "Technology Strategic Plan 2007-2010" is a continuation of and update of the Garland ISD "Technology Strategic Plan" Completed in December of 1998 and updated in June of 1999, March 2002, and Dec 2005.

This Plan is closely aligned with the overall District Strategies to ensure that the Technology Goals and Objectives actually help accomplish both short- and long-term District goals.

Technology is a process involving capital equipment and related materials, as well as human resources. The materials most responsible for economic change in the last five years have been the computer and other microprocessor-based systems. The human resources include the use of our critical thinking skills to apply the scientific and material aspects of technology. Knowing which type of technology to apply is as important as knowing how to apply it. It is important to use technology, as well as statewide directives and appropriate national initiatives, to support the district's strategic plan.

As always, our goal is to find cost effective creative ways to use new and emerging technologies to meet our district objectives. At any point in the continuous implementation of technology projects all current and new initiatives will be measured against this technology strategic plan.

Leadership and Support

An Executive Administrator of Technology, reporting to the Assistant Superintendent for the Division of Business Operations, heads the Technology department. This department, employing approximately 136 staff members, includes an Educational Technology Group and an Information Technology Group, each headed by a Director. Of the 136 staff, 69 Campus Technology Assistants are campus-based. A Project Manager who coordinates the technology component of all district facilities construction reports directly to the Executive Administrator of Technology.

Community Partnerships

Through a variety of programs, the local community is an active participant in the life of the district and its mission of excellence. These community partnerships include:

- o Business Education Scholastic Team (BEST) – a partnership between the district and local businesses, which offers mentoring.
- o Campus Improvement Teams – community members, along with teachers, administrators, and parents, work to develop unique plans to increase academic achievement and to improve the school environment.
- o Community Education – the district offers classes ranging from water safety to swing dancing to technology-skill development.
- o School-to-Careers Initiative – a partnership between the district and local business and industries to ensure that students are able to explore a variety of career options.

The Future

In the future, stakeholders in Garland ISD will have real-time, on-demand access to information. This information can be student related, curriculum, finance, demographic, etc. The information will be provided in real-time, on-demand. This will empower our stakeholders to see what they want to see, when they want to see it, and in the format they want to see it. These stakeholders include parents, students, teachers, administrators, citizens, and the business community.

Budget

The total amount budgeted for the current three-year plan is \$65,830,000, most of which comes from local funds (bond and maintenance and operations.) This is a significant investment by the District and indicates our strong support for educational technology.

Needs Assessment

Assessment Process:

Each year the Superintendent's Cabinet reviews the Technology Strategic Plan, the implementation plan for technology for the district, and the remaining bond funding to a prioritized list of projected technology needs. Once the data is collected and summarized, the Executive Administrator of Technology presents his findings to the Cabinet with reviews and recommendations.

Existing Conditions:

Currently 100% of our 3800 classrooms have a teacher workstation which consists of a computer connected to the Internet. Each computer has access to multiple remote printing capabilities.

There are 1732 (46%) classrooms with software controlled ceiling mounted projectors, a combo VCR/DVD player, and a document camera. The statistical breakdown includes:

583 High School installations
493 Middle School installations
656 Elementary School installations

The remaining classrooms have a presentation station which includes a computer and either a DVD, VCR or DVD/DCR combo connected to a 32-inch TV monitor. Stand-alone machines are not encouraged. Most schools have multiple labs and all libraries have multiple computers for additional student use.

Additionally, data drops are located in any space throughout the school that might have to be used instructionally including gyms, on stages, and in the cafeteria. All elementary campus classrooms have three drops in each classroom and all new classrooms built since 2005 have a minimum of three drops.

In the summer of 2007 all 80 facilities within the Garland ISD will be interconnected with a dark fiber managed wide area network (WAN). All district network and Internet services will be centralized, managed, and distributed from the Technology Center allowing the district to efficiently and proactively manage and maintain network services including web filtering.

Every campus (71) has a Computer Technology Assistant, who serves as the first line of defense for troubleshooting technical problems. Their main role is to assist end users (teachers) in resolving technical issues.

The recent purchase of electronic curriculum software from Cognitive Systems Technologies is providing the School Improvement Department with the ability to easily embed technology integration links into their curricular frameworks. The actual link to the technology component is included in the electronic curriculum; all a teacher needs to do is click on the link to activate it. All curricular areas are moving curriculum guides to this format.

Elementary Schools

Garland ISD has 45 elementary campuses, 2 Pre-K campuses, and 2 elementary campuses under construction. The existing elementary campuses, as well as the 2 campuses under construction, have computer labs of 30 or 60 workstations. Students attending these labs utilize an Integrated Learning System, SuccessMaker, a keyboarding product, UltraKeys, and a technology applications product, EasyTech. All students, grades K-5 attend the computer lab multiple times per week for periods of 25 minutes or longer to use these products which reinforce the skills they are learning in class. Two of the three district wide software packages have TEKS and TAKS correlations used by teachers to target skills for which individual students are experiencing problems. TAKS scores in Garland ISD indicate teachers who effectively monitor student performance in the computer lab, and make adjustments based on the student's strengths and weaknesses, have a direct correlation to student success on the TAKS test.

In an effort to prepare Garland ISD students for the TAKS test and to address the TEKS objectives, the GISD curriculum department recommends additional software packages for campuses to use. These software products are loaded and managed by the Campus Technology Assistants housed at each campus. The GISD curriculum coordinators provide training on these products.

The Garland ISD Technology Department strives to provide teachers with the most effective technology tools. In the fall of 2006, GISD Technology added mounted projectors in all fifth grade Title I classrooms. In addition, two student computers were added to each of these classrooms. In the fall of 2006, Technology added a Title I Technology Facilitator whose goal is to help teachers become proficient in integrating the available technology resources into the curriculum. The Title I Technology Facilitator spends the majority of the time on the campuses modeling integration activities and working individually with students to target ways to successfully use the projectors and two student computers. Fourth grade teachers and students will be targeted during the second year and the third year of the program will be focused on third grade teachers and students.

Middle Schools

Every middle school has a minimum of three computer labs, however some have four. One lab is designated for using Plato Pathways, one is utilized for teaching Computer Explorations (an elective for 7th and 8th grade students) and the third/fourth lab(s) are designated for general use. Productivity tool software (i.e. Microsoft Office Suite), curriculum specific software applications, keyboarding and Internet research are the main uses of the general purpose labs. A Career and Technology Education technology-module lab can also be found at five of the thirteen middle schools. Within the next two years, five more of these CATE labs will be installed in middle schools.

Three classroom sets of portable data-entry devices (Writers) are used exclusively in 6, 7 and 8th grade English classes. These keyboards afford students the ability to practice keyboarding and extend word processing availability.

Mounted projectors, VCR/DVD players, document cameras and software which control these devices can be found in all core curriculum classrooms. These new additions to the middle school classrooms have totally changed the teaching/learning environment in a very positive way.

One drop down foreign language lab can be found in each middle school. These interactive labs include a teacher laptop, mounted ceiling projector, instructor "command post" and headsets with microphones. Students listen and speak as their work is recorded on the teacher's laptop. Teachers later review recorded files and submit grades on work accomplished.

Our secondary integrated learning system, Plato Pathways, is available to those middle school students needing additional work in the core curriculum areas as well as TAKS remediation. This software is also available on teacher workstations to use for large group instruction in the classroom.

High Schools

Every high school has 12-14 computer labs. Of those, two or three are general purpose labs, with the remainder designated for the Career Technology Education and Technology Applications classes and Credit Recovery.

The CTE classes offered exclusively in labs include: business, AutoCad, career preparation, communications graphics, Computer Animation, multimedia and a Cisco Academy at our magnet school. Other CTE technology classes offered at the high school include: Horticulture/Landscape Design, Marketing and numerous classes that need lab time to complete student work.

The Technology Applications courses which are also exclusively taught in a computer lab are: Computer Science, Web Mastering, Digital Graphics and Animation, and Multimedia. The Web Mastering class is a very popular class at all of the high schools. Students taking this class generally are responsible for helping to write content for the campus Web page.

The Credit Recovery Initiative is an alternate manner of obtaining a diploma. Every high school has a Credit Recovery lab. Plato Pathways is used by these students.

Specialized programs like READ 180, Early College and an Alternative High School with on-line learning initiatives are located at various high schools.

Lab utilization varies from campus to campus, but there is a concentrated effort to have all computer labs full at all times. Plato Pathways is available to those high school students needing additional work in the reading and mathematics areas as well as many other curriculum areas.

Science classrooms at the high schools have two student computers in addition to the teacher presentation station. The Math, Science, and Technology Magnet High school has 8 computers per science classroom as well as our newest high school Sachse High. All high schools use Venier Proeware and Logal.

Some specific programs at the high school—such as art and journalism—use Macintosh computers. The district outsources the service to these machines.

Foreign Language labs are analog listening stations. At this time there is no plan to upgrade to digital.

Students with Special Needs

The district provides assistive and adaptive technology on an as-needed basis for students with special needs. Generally, Special Education classrooms have one teacher presentation station and two student computers.

Video

Video is a major strategic component of the District's overall strategy for enhancing the instructional process. The future of video at Garland ISD will include digital access to video resources that directly correlate to TEKS objectives, video production and editing capabilities at every campus site, broadcast and cable TV in every classroom, and video streaming to every computer. Current building blocks in place include a recently completed video production facility at Lakeview Centennial High School, which also offers classes in video production and editing. Also in place is a newly installed video conferencing room at the District Tax office for 20/25 users. This unit was provided through a grant from Region 10.

District-Wide Software Approved and Supported

Following is a listing of the major district-wide approved and supported software. The Campus Technology Assistant on each campus is charged with the responsibility of maintaining an accurate and comprehensive inventory of all hardware and instructional software for that campus. The Technology Department is currently compiling the campus hardware and software information into a single database.

Basic Desktop Configuration: Windows XP, Internet Explorer, Office XP/2003, Norton antivirus, GroupWise email client

Accelerated Reader: On-line reading quizzes and skill builders installed at 63 elementary and secondary campuses

Altiris RapiDeploy: Image deployment software used at all locations to set up new workstations or repair existing computers

Educaide Access: On-line databases of instructional material installed at 63 elementary and secondary campuses

Follett Library Automation Software: Installed on network servers at all 63 instructional campuses plus two administrative locations; provides on-line card catalog, circulation system, and MARC record database

Plato Pathways ILS: Network-based curriculum, tutorials, and assessment tools installed at twenty secondary campuses

SuccessMaker ILS: Network-based curriculum utilizing diagnostic/prescriptive lessons, installed at 45 elementary campuses

Textbook Tools and Software Resources: Variety of software applications that correlate with adopted textbooks

Most computers are preloaded with a specific software image designated as a teacher/administrative computer or a student workstation. The image has standardized software pertinent to a type of user, then customized with additional software to fit a particular function.

Intranet/Portal

Employees want easy-to-access information about all aspects of working in GISD. They need current and accurate district news distributed by a reliable source, rather than the "rumor mill". By using Lotus/Domino, which offers security and integration with our existing infrastructure, we have been able to offer the district secure applications that work through the intranet, the one tool with which 90% of staff are proficient.

Current site map for the Garland ISD intranet contains the following applications and links:

Garland ISD Grade book link for all teachers/administrators

Cool Ice (Secure Mapper/Student Data on the Web)

Bilingual/ESL Site for forms and information

Business Department Forms, Manuals, Correspondence, and CAP Manual

Communications Department Directories are provided for schools, buildings, and staff as well as the E-Loop, the online newsletter for the District

Copyright Information for Employees

Educational Operations Performance Objectives Forms

Email link contains information for staff on email issues

Employee Benefits Enrollment Forms, Claim Forms, Plan Documents, and FAQs

Facilities Scheduling links

Food Services secure forms for cafeteria managers

G-Board is the online Bulletin Board for GISD which contains notices, things to buy, and other information. This site is secured by username and password.

Gifted and Talented Department Professional Development Handbook

Garland Oracle Account Segments, PowerPoint Tutorials, and Forms and Documentation

Grants site providing information, links, and tips for writing grants

Guidance and Counseling resources, forms, training and tutorials, and course guides

Health Services secure site for nurses, coordinators, and director to obtain information

Hotline for reporting GISD Ethics Compliance issues

Human Resources provides Employee Directories, forms and documentation for employees

Library Services provides forms and access to online book review application for librarians

Maintenance Department contains forms and a link to secured energy management system website for EM personnel

Music Teachers secured application for teachers to upload and download music activities to use with their classes

Online Libraries secured with names and passwords are provided for Administrators, Music Teachers, Librarians, Quizdom Teachers, and Technology Department.

Online registration for all staff for Technology, Bilingual, Special Education, School Improvement, Health, Gifted and Talented, Oracle, Federal Programs, and Business departments.

Payroll Department contains forms users

Planning, Research, and Evaluation contains information on Accountability, assessments, district plan, testing, and research

Purchasing Department website provides bids that contain information on current vendors for GISD

Risk Management provides videos, PowerPoints, and documentation on risk management issues

School Improvement provides forms for administrative use, math intervention, and reading intervention

Secondary Operations contains Grading, Grouping and Recording Procedures, Chapter 37 Documentation, and forms

Security web provides information for staff for phone lines, arming of alarms, and bell procedures

Special Education provides operating guidelines manual, as well as web forms for student data in Cool Ice

Special Event Center links to the outside web for this facility

Technology contains Help Desk secure software for reporting technology problems, documentation for all Technology classes, training charts, technology bid information, and secure online technology projects information and asset tracking

Wellness is provided by the Employee Benefits department as a link to an outside source for timely articles pertaining to health issues

Technology Needs:

From the comprehensive assessment process, it was found that the five greatest on-going needs to best implement the instructional plans are:

1. Continuing on-line electronic data access to district resources - including real-time student information such as grades and attendance, remote access to resources from outside the district, access to online training, access to district curriculum online, access to digital video, parental access online, and electronic forms online;
2. Enhancements to the network - such as increased bandwidth, more robust connectivity and speed, 7 x 24 x 365 uptime access to additional printers, access to broadcast video, and remote access to the network from outside the district;
3. Projection devices - additional data and video projectors for instruction, and more devices such as a projector and "Duke" document camera in every classroom.
4. Increased access to computers - including more computers in the classrooms, labs and libraries; and continuous upgrading of existing computers so that the sustaining lifecycle of any computers is not longer than five years.
5. Improved communications system - a full-featured phone system, telephones in the classrooms, greater access to telephones for parent-teacher communications, telephones for increased technical service, and telephones for increased security and as a behavioral deterrent.
6. Complete video streaming to every desktop in the district along with a separate video channel for each school.

Goals, Objectives, and Strategies

GOAL 1: Increase effectiveness and productivity of administrators, faculty, and staff by automating existing manual processes and procedures

OBJECTIVE 1.1:

Utilize electronic forms and processes

Budget Amount \$300,000.00

LRPT category: Leadership, Administration and Support

E-Rate Correlates: ER01, ER02

NCLB Correlates: 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
1.1.1:	Replace paper forms with electronic media. LEA LRPT Correlates: LAS03, LAS04	State: Original Status: In Progress	Ongoing	Departments that need automation and Technology Department	Success of GISD electronic bulletin board, online training registrations system, and travel forms.
1.1.2:	Identify and prioritize district forms to be placed in electronic format. LEA LRPT Correlates: LAS03, LAS04	State: Original Status: In Progress	Ongoing	Department heads working in conjunction with Technology to determine priority and funding.	Project progression will be reported to the Technology.
1.1.3:	Determine where and how documents should be stored/archived. LEA LRPT Correlates: EP03	State: Original Status: In Progress	Ongoing	Technology Department	Published list of document archival methodology and location.
1.1.4:	Provide a solution for staff to produce online forms that collect data. LEA LRPT Correlates: I01	State: Original Status: Planned	2008 Investigate solutions 2009 Implement solution	Technology Departments and various departments throughout the district	Online forms
1.1.5:	Investigate solution for online registration for outside groups. LEA LRPT Correlates: I01	State: Original Status: Planned	2008 Investigate solutions and feasibility.	Technology Department	Online registration for outside groups.
1.1.6:	Investigate solution for online payments of fees and services. LEA LRPT Correlates: I01	State: Original Status: Planned	2008 Investigate solution and determine feasibility.	Technology Department	Online payments for fees and services.

OBJECTIVE 1.2:

Automate processes for District Human Resources and Business offices

Budget Amount \$500,000.00

LRPT category: Leadership, Administration and Support

E-Rate Correlates: ER01, ER02

NCLB Correlates: 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
1.2.1:	Implement an integrated HR system that will automate district Human Resources processes with an integrated business system. LEA LRPT Correlates:	State: Revised Status: In Progress	Ongoing	Human Resources and Business Department	When the application, hiring and personnel business processes become seamless.

1.2.2:	Continue using automated district business systems integrated with the Human Resources processes. LEA LRPT Correlates:	State: Revised Status: In Progress	Ongoing	Assistant Superintendent of Business Operations and Superintendent's Cabinet	All business and personnel processes are automated using best business practices. (Hiring, application, benefits, payroll, employee evaluations, contracts, attendance, accounting, fleet management, asset management, purchasing, etc).
1.2.3:	Implement automated indexing of Cold Storage for transcripts, report cards, payroll records, IEPs and ARDs. Comments: Should document storage be imaged based or active and retrievable data storage? LEA LRPT Correlates:	State: Revised Status: In Progress	Ongoing	Appropriate department heads and Technology.	Availability of documents on demand from the Cold Storage system via indexing.
1.2.4:	Implement time management system district wide in phases as specified by the business department. LEA LRPT Correlates:	State: Revised Status: In Progress	Ongoing	Appropriate departments with the support of Technology.	KRONOS and/or other electronic time keeping.
1.2.5:	Place into production the Asset Management system once testing has been completed. LEA LRPT Correlates:	State: Revised Status: In Progress	Ongoing	Business Office	The asset system is automatically updated when a purchase order is entered.
1.2.6:	Improve and automate the Student Activity funds process. LEA LRPT Correlates: LAS04	State: Revised Status: In Progress	Ongoing	Business Department	Automated accountability of student activity accounts at the local campus.

OBJECTIVE 1.3:

Automate district curriculum.

Budget Amount \$100,000.00

LRPT category: Teaching and Learning

E-Rate Correlates: ER01, ER02

NCLB Correlates: 01, 04a, 04b, 11

<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
1.3.1:	Enable teachers to monitor student performance through a more automated benchmark testing process. Comments: With the implementation of the Data Driven Decisions feature in TRIAND, this strategy is being realized. As of January 2006, all secondary unit and benchmark testing transitioned to TRIAND. As of the January 2007, the elementary benchmarks will have transitioned to TRIAND with plans to move the unit testing over to this system in the future as scanners are made available on every elementary campus. Refer to strategy 4.3.1 LEA LRPT Correlates: EP03, EP06,	State: Revised Status: In Progress	2006-Secondary Benchmark testing transitioned to TRIAND 2007-2008-Elementary Benchmark testing transitioned to TRIAND	School Improvement and Technology	Teachers can administer benchmark testing and evaluate results immediately.

	EP07, LAS08, TL01, TL12				
1.3.2:	<p>Automate TAKS intervention process.</p> <p>Comments: With the data accessible at the teacher level through TRIAND, students needing intervention are identified and continuously tracked using benchmark and unit testing. Appropriate intervention resources and tools are now available in grades K-7. The current goal is to create appropriate alignments and recommended implementation strategies for all these resources and then make them available in the online curriculum.</p> <p>LEA LRPT Correlates: EP07, TL12</p>	<p>State: Revised</p> <p>Status: In Progress</p>	2007-2008	School Improvement, PRE and Testing, with support from Technology	Child passes TAKS.

GOAL 2: Improve communications, learning & flexibility for students, parents/guardians, community members, and district personnel.**OBJECTIVE 2.1:**

Global access to student information

*Budget Amount \$100,000.00**LRPT category: Leadership, Administration and Support*

E-Rate Correlates: ER01, ER02

NCLB Correlates: 09, 12

<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
2.1.1:	Provide Intranet/Internet student information for authorized GISD users. LEA LRPT Correlates: I09, LAS04	State: Revised Status: In Progress	Spring 2007 - Begin pilot for principals using PDAs for the ability to have immediate access to information while not in the office.	Technology Department	Administrators will be able to access student data via Intranet/Internet.
2.1.2:	Provide Internet access to student information for authorized parent/guardians. Comments: All parents/guardians now have access to on line grades, teacher lessons and cafeteria menus for all students. Future considerations could include teacher lesson plans, attendance, grades, eligibility, food service information, health information, etc. Must be in accordance with FERPA (Family Educational Record Privacy Act). In other large districts they have 1 or 2 people called Records Privacy Specialists whose job is to monitor and review data requests for privacy and legality. TEA might have procedures in place related to this. Technology is going to put into effect capturing the parent email address on the enrollment forms. Not all parents have access to technology, no redundancy of data input. LEA LRPT Correlates: I09, LAS04, LAS11, LAS13	State: Revised Status: In Progress	Ongoing	School Board, GISD Administration and Technology Department.	Parent/guardian will utilize the Internet to access their child's information

OBJECTIVE 2.2:

Electronic access to online learning

*Budget Amount \$1,400,000.00**LRPT category: Teaching and Learning*

E-Rate Correlates: ER01, ER02

NCLB Correlates: 01, 02, 03, 08

<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
2.2.1:	Provide learning opportunities utilizing teleconferencing, Internet, video, distance learning, cable TV and other electronic media. Comments: Beneficial for homebound students, especially AP with advanced coursework, and GAEC	State: Revised Status: In Progress	Fall 2007 - Begin Cable Network deployment in every classroom. 2007 - Pilot 7 schools with video streaming content for	Communications Department, selected school principals and Technology Department.	Video Conferencing is being utilized for classroom instruction and staff development.

	<p>students, can capture master teacher in courses that are difficult to find qualified teachers such as signing courses, teacher mentoring. Tools available: WebEx. On demand and real time professional development for employees.</p> <p>LEA LRPT Correlates: I02, TL04, TL07, TL09, TL15</p>		students.		
2.2.2:	<p>Develop an online staff development learning program that will provide data and accountability.</p> <p>LEA LRPT Correlates: EP03, EP05, EP06, TL13</p>	<p>State: Original</p> <p>Status: Planned</p>	<p>2007- Design online training courseware</p> <p>2008- Test online courses</p>	Technology Department and School Improvement	GISD Tech Training website
<p>OBJECTIVE 2.3:</p> <p>Continue to plan for and integrate technology into the curriculum</p> <p><i>Budget Amount \$1,050,000.00</i></p> <p><i>LRPT category: Teaching and Learning</i></p> <p>E-Rate Correlates: ER01, ER02</p> <p>NCLB Correlates: 01, 02, 04a, 04b, 06, 07</p>					
<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
2.3.1:	<p>Provide additional hardware in learning areas to facilitate adequate student access to technology.</p> <p>Comments: All science probeware and language labs have been deployed</p> <p>LEA LRPT Correlates: EP05, I04, I07, TL04, TL05, TL06, TL08</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>Spring 2004 – Prepared bid documents for science probeware.</p> <p>Fall 2004 – Implement science probeware. Develop bid documents for middle school language labs and mobile computer labs. Develop plan for distribution of additional computers purchased with bond funds</p> <p>2006-2007 Mobile foreign language labs for all middle schools</p> <p>2007-2008 Updating language labs in High school levels</p>	School Improvement, Purchasing, and Technology Departments	Documentation of equipment purchased and installed in classrooms. Student use of science probeware in 2004-2005 school year.
2.3.2:	<p>Provide student and teacher access to managed online courseware such as Advanced Placement review software</p> <p>LEA LRPT Correlates: TL09, TL15</p>	<p>State: Original</p> <p>Status: In Progress</p>	<p>Spring 2004 – Provided online AP exam review for over 200 high school students, provided online algebra remediation for almost 400 students, and provided online TAKS review for exit-level students.</p> <p>Fall 2004 – Begin installation of new wide-area network to increase bandwidth, enabling use of applications such as</p>	Technology and School Improvement Departments	Student management reports from online courseware indicating extent of usage; impact of courseware on assessment scores

			<p>video content in courseware.</p> <p>Fall 2006 - The implementation of several Online Instructional Resources for TAKS tutorial and preparation such as (Study Island, Texas Web Tutor, Region 10 Online Tutorials)</p> <p>Summer 2007 – Review data from instructional system managements and create reports that show software usage in order to determine the instructional impact of Online Instructional Resources for TAKS tutorial and preparation.</p>		
2.3.3:	<p>Ongoing efforts to align Technology Application TEKS into the GISD curriculum (by subject area - as they are revised) with appropriate Professional Development.</p> <p>LEA LRPT Correlates: EP02, EP03, EP05, EP07, LAS01, LAS03, LAS04, LAS10, TL02</p>	<p>State: Original</p> <p>Status: In Progress</p>	Ongoing - all years	School Improvement and Technology	Each year's revised curricula show integration of Technology Application TEKS. Educators in those curriculum areas have appropriate lesson plans.
2.3.4:	<p>Review/revise Technology Plan annually to reflect changes in curricular emphasis, technology, and/or funding.</p> <p>LEA LRPT Correlates: I01, I08, LAS01</p>	<p>State: Original</p> <p>Status: In Progress</p>	Technology Steering committee to meet at least quarterly to review progress.	Technology Steering committee	Annual revisions to Technology Plan.

OBJECTIVE 2.4:

Provide continuing professional development for GISD educators in the use of technology both in instruction and in classroom management

Budget Amount \$750,000.00

LRPT category: Educator Preparation and Development

E-Rate Correlates: ER01, ER02

NCLB Correlates: 01, 04b, 06

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
<p>2.4.1: Provide technology training to Garland ISD Teachers and Administrators. Offer classes at the Technology Center during the day and after school throughout the school year.</p> <p>Comments: Each month the Technology Department offers from 15-30 hours of training in the following areas: MS Word I & II, MS PowerPoint I & II, MS Access I & II, MS Excel I & II, GroupWise I & II,</p>	<p>State: Original</p> <p>Status: In Progress</p>	Ongoing and continuous - all years of Plan. At least 15 hours of courses will be offered each month.	Technology Department personnel-particularly the full-time manager of technology staff development offerings.	Electronic online registration site records of attendance. 90% of attendees fill out evaluation forms. 100% of evaluations score an average of 3 or higher (on a scale of 1-4, with 4 being highest). Evaluation results are saved online.

	<p>Gradebook, Integrated Learning Systems (SuccessMaker & Plato), Interclass, Technical Support Training, Mapper, Technology Integration, Qwizdom, and Oracle.</p> <p>LEA LRPT Correlates: EP05, EP06, EP07, EP08, I03, LAS03, LAS14, LAS15, TL01, TL08</p>				
2.4.2:	<p>Provide technology training to Garland ISD paraprofessionals and CTAs(Campus Technology Assistants). Classes are offered at the Technology Center during the day and after school throughout the school year.</p> <p>Comments: Each month the Technology Department offers from 15-30 hours of training in the following areas: MS Word I & II, MS PowerPoint I & II, MS Access I & II, MS Excel I & II, GroupWise I & II, Gradebook, Integrated Learning Systems (SuccessMaker & Plato), Interclass, Technical Support Training, Mapper, and Oracle.</p> <p>LEA LRPT Correlates: EP07, LAS12, LAS13</p>	<p>State: Original</p> <p>Status: In Progress</p>	<p>Ongoing and continuous - all years of Plan. At least 15 hours of courses will be offered every month.</p>	<p>Technology Department personnel</p>	<p>Electronic online registration site records of attendance. 90% of attendees fill out evaluation forms. 100% of evaluations score an average of 3 or higher (on a scale of 1-4, with 4 being highest). Evaluation results are saved online.</p>

OBJECTIVE 2.5:

Provide online instructional resources in order to offer Credit Recovery, Initial Credit and Dual Credit opportunities to secondary students.

Budget Amount \$50,000.00
LRPT category: Teaching and Learning

E-Rate Correlates: ER01, ER02
 NCLB Correlates: 01, 02, 03, 04a, 04b, 06, 07, 08, 10, 11, 12

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
<p>2.5.1: Provide rigorous online instruction offering initial credit and credit recovery to at risk students.</p> <p>LEA LRPT Correlates: EP01, EP08, EP09, I01, I04, I07, I08, I09, LAS01, LAS05, TL02, TL04, TL05, TL06, TL07, TL09, TL13</p>	<p>State: Original</p> <p>Status: In Progress</p>	<p>Spring 2007 - Evaluation and implementation of an on-line curriculum that provides initial credit.</p> <p>Fall 2007 – Move our current credit recovery curriculum to an online environment providing students from the Garland ISD with an online credit recovery solution.</p>	<p>Technology Department and Secondary Operations</p>	<p>At risk students will be enabled to complete their high school education. The district will have a lower drop out rate and less over-age students in the traditional school settings.</p>
<p>2.5.2: The creation of a dual credit program where students can receive both high school and college credits by using instructional technology solutions.</p> <p>LEA LRPT Correlates: EP01, EP08, EP09, I01, I04, I07, I08, I09, LAS01, LAS05, TL02, TL04, TL05, TL06, TL07, TL09, TL13</p>	<p>State: Original</p> <p>Status: Planned</p>	<p>Fall 2007 – Evaluation and implementation of a dual credit program at three different high schools providing laptops and instructional software from Early College to both faculty and students.</p>	<p>Technology Center and Secondary Operations</p>	<p>The district will see more students earning college credit while enrolled in high school giving them more avenues for success.</p>

OBJECTIVE 2.6:

Continue to provide technology systems and support for Adult Literacy programs in District.

Budget Amount \$50,000.00

LRPT category: Teaching and Learning

E-Rate Correlates: ER01, ER02

NCLB Correlates: 10

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
2.6.1: Keep current software and hardware systems up to date in the District-sponsored Adult/ESL Reading program of Garland Evening School (which uses programs such as PLATO Pathways and Rosetta Stone to assist adult learners.) LEA LRPT Correlates: I02	State: Original Status: In Progress	Ongoing and continuous (all years of Plan).	Technology Department and Garland Evening School	Systems and software are at same level for GES as for rest of district. Computers are replaced/upgraded every 3-5 years.
2.6.2: Provide ongoing technical support for elementary school programs offering adult courses in technology literacy. Comments: Southgate Elementary LEA LRPT Correlates: EP01, EP02, EP03, EP04, EP08, EP09, I01, I02, I05, I06, I07, I08, I09, LAS01, LAS02, LAS03, LAS04, LAS05, LAS06, LAS10, LAS11, LAS15, TL04, TL05, TL09, TL10, TL11, TL13, TL16	State: Original Status: In Progress	Ongoing and continuous - all years of Plan.	Technology Department.	Semester-based reporting of number of hours of service/support provided by Technology Department personnel to these elementary programs.
2.6.3: Add technical support as the Garland Evening School expands to collaboration with the Urban League. LEA LRPT Correlates: EP01, EP02, EP03, EP04, I01, I03, I05, I06, I07, I08, I09, LAS01, LAS03, LAS04, LAS05, LAS06, LAS09, LAS10, LAS11, LAS14, LAS15, TL01, TL04, TL05, TL06, TL07, TL08, TL09, TL11, TL13, TL14, TL15, TL16	State: Revised Status: Completed	Summer 2007.	Technology Department and Garland Evening School	Semester reporting of number of hours of service provided by Technology Department personnel to Evening School.

GOAL 3: Enable broader access to District Technology Resources within the district and GISD community.**OBJECTIVE 3.1:**

Construct the appropriate infrastructure that will provide users and patrons with immediate GISD information, data, and resources.

Budget Amount \$750,000.00

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>
3.1.1: Upgrade network operating system(NOS)to prepare for portal access, gateways and meta data systems. Comments: Requires implementation of recommendations provided in the March 2004 Board approved network study. LEA LRPT Correlates: I02, LAS07	State: Revised Status: In Progress	Fall 2006 - The Technology Center was the first campus to be upgraded with the new NOS and e-mail system. Spring 2007 - School campus upgrades will begin Spring 2008 - All GISD campuses should be complete	Technology Department (Director of Technology and network engineering team)	Users will access the new e-mail system and have access to new home drives and print services through the new NOS.
3.1.2: Develop metadata system that eliminates redundant data entry. LEA LRPT Correlates: I02, LAS07	State: Revised Status: In Progress	Spring 2008	Assistant Superintendent of Student Affairs and Community Relations	Users surveyed will report reduction in redundant data entry.

OBJECTIVE 3.2:

Strengthen existing program that enables parents to access district computers after school hours. (Southgate, Routh Roach, Garland Evening School)

Budget Amount \$10,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01

NCLB Correlates: 03, 09, 10, 12

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
3.2.1: Identify areas or buildings where services are most needed. LEA LRPT Correlates: I09	State: Revised Status: In Progress	Fall 2008	Assistant Superintendent of Student Affairs and Community Relations	Report stating areas of need.
3.2.2: Determine staffing requirements. LEA LRPT Correlates: LAS04, LAS07	State: Revised Status: In Progress	Ongoing	Assistant Superintendent of Student Affairs and Community Relations	Fill staff positions.

GOAL 4: Provide additional and new technology tools for educators, students, and staff to enhance effective classroom learning.**OBJECTIVE 4.1:**

Provide projection devices/visual presenters.

Budget Amount \$4,000,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 01, 03, 05

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
4.1.1:	<p>Create a decision making team to develop an implementation plan and prioritize the allocation and deployment of projection devices.</p> <p>Comments: Technology has installed 2439 projectors and document systems as of March 2008. Issues: Need to add personnel to the Video Department because of the increased volume of work.</p> <p>LEA LRPT Correlates: I02, LAS07, TL07</p>	<p>State: Revised</p> <p>Status: In Progress</p>	Ongoing	Decision-making team, Educational Operations, School Improvement, Technology Project Manager and Technology Department Coordinators.	Projection devices installed in the designated classrooms.

OBJECTIVE 4.2:

Provide a District-wide video communication system to the classroom.

Budget Amount \$5,100,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 01, 03, 05, 08

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
4.2.1:	<p>Provide Cable (analog) video to every classroom.</p> <p>LEA LRPT Correlates: I02, TL15</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>Summer 2008 - Publish bid for purchase</p> <p>Fall 2008 -Begin installation process</p> <p>Summer 2009 -Project complete</p>	Purchasing Department, School Improvement, Educational Operations, individual campuses and Technology Department.	Cable TV in the classroom by 2009. Broadcast cart available for classroom use.
4.2.2:	<p>Provide Digital video through the data network to every classroom.</p> <p>LEA LRPT Correlates: I02, TL15</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>Fall 2007 - Pilot at seven schools</p> <p>2008/2009 School Year - District-wide deployment</p>	Personnel at seven pilot campuses, School Improvement, Educational Operations and Technology Department. All appropriate school personnel.	2009 -Digital video in the classroom

OBJECTIVE 4.3:

Provide test and curriculum data to appropriate users.

Budget Amount \$75,000.00

LRPT category: Leadership, Administration and Support

E-Rate Correlates: ER01, ER02

NCLB Correlates: 09, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
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4.3.1:	Provide teachers, counselors and administrators with online state and local test data. Comments: Requires implementation of recommendations provided in the March 2004 Board approved network study. Way to collect data that teachers document on what has been done with the student. LEA LRPT Correlates: TL10	State: Original Status: In Progress	2002/2003 - Worked with independent agency (TBEC) to customize design. 2003/2004 - Implemented new enhancements. 2005/2006 - Develop a strategy to deliver online student test data.	PRE/Testing Department	Appropriate school personnel have access to pertinent data. Student test information follows students as they change locations within the district.
4.3.2:	Provide online curriculum lesson planner for teachers with parent/guardian access. Comments: Three Phases of implementation: -Online curriculum guide -Utilize the online curriculum guide to build lesson plans -Allows principals to monitor the teacher planning by viewing the plans in multiple formats Plan for expanded storage capability. LEA LRPT Correlates: EP07, LAS04, LAS13, TL12	State: Revised Status: In Progress	2007/2008 - Created initial online lesson plans for teachers. 2007/2008 - Implemented and trained teachers. 2004 - 50% of curriculum is now available, 250 teachers are creating lesson plans online, secondary principals have been trained to monitor the teacher's plans. 2004/2005 - Update and expand the online curriculum planner. 2006 Pilot a group 2008-2009 - Provide a web accessible parent/guardian access to the planner.	School Improvement	Provided teachers with online access to curriculum lesson planner which will eventually have single sign-on.
4.3.3:	Provide PK-1, Bilingual, Special Education teachers a PDA to record TPRI results and upload to a TRPI database. LEA LRPT Correlates: I09, LAS08	State: Original Status: Planned	2007-2008	Technology Coordinator, Elementary Coordinators, School Improvement	Data Upload to a TPRI database

OBJECTIVE 4.4:

Develop new student learning strategies that include wireless labs, electronic textbooks, technology classrooms for students, new hardware, and new software to address student needs.

Budget Amount \$6,000,000.00

LRPT category: Teaching and Learning

E-Rate Correlates: ER01, ER02

NCLB Correlates: 01, 03, 05, 08

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
4.4.1: Evaluate and pilot projects that include new learning strategies. LEA LRPT Correlates: TL05, TL06, TL08	State: Original Status: In Progress	Evaluation phase - 2005 Pilot projects 2006	Instructional Technology and Technology Coordinators	One or more pilot projects have been completed, evaluated (based on student achievement), and documented.
4.4.2: Assign a sub-committee responsible for the future direction of computer-aided instruction (CAI) and Integrated Learning Systems (ILS) within Garland ISD. LEA LRPT Correlates: I01,	State: Revised Status: Planned	early 2007	Technology Steering Committee	Sub-committee will have met and published first meeting minutes by March 2008.

	LAS01				
4.4.3:	<p>Provide additional classroom technology to enhance the Fine Arts program, together with appropriate professional development for Fine Arts educators in use of new tools.</p> <p>Comments: All Fine Arts areas will receive equipment, software and training to integrate with instruction.</p> <p>LEA LRPT Correlates: EP07, TL06, TL09, TL15</p>	<p>State: Original</p> <p>Status: In Progress</p>	2007-2008 Install new equipment and software, training	Technology Department and Fine Arts curriculum specialists.	Students' use of new technology tools in Fine Arts curriculum.
4.4.4:	<p>Evaluate and pilot projects that would enable teachers and students to utilize online communication tools to enhance learning.</p> <p>LEA LRPT Correlates: LAS14, LAS15, TL08, TL14, TL15, TL16</p>	<p>State: Original</p> <p>Status: Planned</p>	2008 Investigate and evaluate tools 2009 Pilot projects	Technology Department	Students and teachers using podcasting, blogging, websites, etc to enhance learning.
<p>OBJECTIVE 4.5:</p> <p>Provide Instructional Coaches at the campus level</p> <p><i>Budget Amount \$15,000.00</i></p> <p><i>LRPT category: Teaching and Learning</i></p> <p>E-Rate Correlates: ER02</p> <p>NCLB Correlates: 01, 02, 04a, 04b, 07, 11</p>					
<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
4.5.1:	<p>Increase the number of Elementary Instructional Coaches at the campus level</p> <p>Comments: Instructional Coaches support the classroom efforts in integrating technology to improve learning in the core curriculum areas.</p> <p>LEA LRPT Correlates: EP01</p>	<p>State: Original</p> <p>Status: Planned</p>	Ongoing	Technology Facilitator and Technology Coordinator	Number of training hours Instructional Coaches attend and the number of training hours they provide at the campus level TAKS scores

GOAL 5: Enhance the home/school connection by providing communication between school, classroom, parents and community.**OBJECTIVE 5.1:**

Provide a District-wide inter-connected phone system.

Budget Amount \$7,000,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 09

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
5.1.1:	Build a phone system that interconnects all GISD facilities. LEA LRPT Correlates: I02	State: Revised Status: In Progress	Ongoing due to maintenance and operations	Siperviso of Security Electronics and Telecommunications and the Technology Department	All secondary campuses and elementary campuses have the phone systems installed. Remaining trunking needs to be completed when the fiber MAN/WAN is complete.
5.1.2:	Provide phone access to all GISD classrooms, offices and administrative areas. Comments: Next task is ongoing maintenance, repair and operations. LEA LRPT Correlates: I02, LAS04	State: Revised Status: In Progress	Ongoing due to maintenance and operations	Supervisor of Security electronics and Telecommunications and Technology Department	3084 phones have been installed in every classroom throughout the district.
5.1.3:	Provide unified messaging system to all GISD classrooms, offices and administrative areas. Comments: The upgrading of a number of existing computers throughout the district is required for the new Groupwise email system to be updated. LEA LRPT Correlates: I02, LAS04	State: Revised Status: Planned	2009-2010 Will be initiated when the Novell Groupwise email system is upgraded to 7.03	Supervisor of Security Electronics and Telecommunications, the Network Engineer for Email/Antivirus and the Technology Department.	Teachers, administrators and clerical staff will be able to access voice messages from computer desktops or email messages through voice mail.

OBJECTIVE 5.2:

Pilot a program to broadcast school information to the community via the local cable TV system.

Budget Amount \$1,000,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 08, 09

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
5.2.1:	Broadcasting school programming to the community. LEA LRPT Correlates: I09, LAS04, TL08	State: Revised Status: In Progress	Ongoing	LCHS technology personnel with support of Technology Department.	District programming available to the public via the local cable TV system.

OBJECTIVE 5.3:

Improve communication to GISD parents and patrons through enhancement of GISD's web pr esence.

Budget Amount \$10,000.00
LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02
NCLB Correlates: 09

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
5.3.1:	Publish information about district planning efforts, bond projects and student successes on GISD website. LEA LRPT Correlates: I02, I09, LAS01, LAS04	State: Original Status: In Progress	Ongoing	Web administrator with input from School Facilities, School Improvement, Principals, and Technology Steering Committee.	Users can readily locate up-to-date information via web browser.
5.3.2:	Provide solution for teachers to create websites. LEA LRPT Correlates: I01, TL16	State: Original Status: Planned	2008 Investigate solutions 2009 Implement	Technology Department	Teacher websites
5.3.3:	Provide solution for more effective management of campus websites. LEA LRPT Correlates: I01, TL16	State: Original Status: In Progress	2007 Investigate solutions 2008 Implement solution 2009 Evaluate	Technology Department	The redesigned sites provide more effective communication of school information.
5.3.4:	Provide solution for including more engaging and interactive multimedia elements on district and campus sites. LEA LRPT Correlates: I01, LAS01	State: Original Status: In Progress	2007 Investigate solutions 2008 Implement solutions 2009 Evaluate	Technology Department	streaming video, podcasting, blogging, photo galleries, interactive elements - such as maps and tutorials
5.3.5:	Provide integrated online applications that allow for efficient sharing of district information. LEA LRPT Correlates: I01	State: Original Status: In Progress	2008 Investigate solutions 2009 Implement solutions	Technology Department	database-driven calendars, directories - integrated where possible, e-newsletters

GOAL 6: Increase time on task for students and all district personnel by providing efficient networking and convenient remote access.

OBJECTIVE 6.1:

Increase speed and capacity of the network.

Budget Amount \$8,000,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 03

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
6.1.1:	<p>Interconnect all GISD locations with fiber optic technology.</p> <p>Comments: This is the critical component for completion of GISD long-range technology goals.</p> <p>LEA LRPT Correlates: 102</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>Underground fiber installation is complete. Interconnection and activation of fiber connecting all schools will be completed by May 2008.</p>	<p>MAN/WAN Systems Engineer in charge of the Technology Enterprise Communications Department and the Technology Department.</p>	<p>Light wave multiplexing of fiber, gigabit speeds between buildings, and 10-gigabit speeds between hubs.</p>

OBJECTIVE 6.2:

Increase concurrent user capacity for Remote Access.

Budget Amount \$500,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 03

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
6.2.1:	<p>Enable GISD employees to access individual accounts (Home Directories, Email, Mapper, Radar, Gradebook, Student System) from any location as if they were at work.</p> <p>Comments: Once the portal software is approved, the next phase will be to pilot various implementation strategies.</p> <p>LEA LRPT Correlates:</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>Upon completion of Fiber Optic installation: Design and implementation of Portal Services/Gateways, identity management and metadata standards.</p> <p>May 2008 portal software will be approved by GISD Board Of Trustees</p>	<p>Web Communications Coordinator and Technology Department.</p>	<p>Successful data access (Home Directories, Email, Mapper, Radar, Gradebook, Student System) from home, different schools, and other locations. Improved employee productivity and efficiency as measured by number of times data is accessed from remote locations.</p>

OBJECTIVE 6.3:

Centralize and increase data storage.

Budget Amount \$3,600,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 03, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
6.3.1:	<p>Implement an Open Systems technology for centralized data storage (SAN) to provide increased storage capacity.</p> <p>Comments: This will be an ongoing challenge due to the increased storage demands of the Oracle Business System and increased video capabilities throughout the district.</p> <p>LEA LRPT Correlates: LAS02</p>	<p>State: Revised</p> <p>Status: In Progress</p>	Ongoing - Yearly Evaluation of future storage needs.	Director of Information Technology, the Open Systems Manager and the Technology Department.	<p>GISD currently has 86 terabytes of Xiotech SAN storage.</p> <p>April of 2008 teh GISD BOard of Trustees will approve and additional 4 terabytes and the hardware/software to upgrade the speed of the existing storage.</p>

OBJECTIVE 6.4:

Provide student remote access through Portal services for both K-12 and adult learners .

Budget Amount \$500,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 03, 08, 10

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
6.4.1:	<p>Investigate options and costs for secure sign-on for students</p> <p>Comments: Requires each student to have unique identification. Passwords and/or other authentication techniques also required.</p> <p>LEA LRPT Correlates: TL15</p>	<p>State: Original</p> <p>Status: Planned</p>	Fall to Spring 2008	Technology Department	Report to Steering Committee re: recommendation and costs by end of 2008 calendar year.

OBJECTIVE 6.5:

Provide interactive communication capability for teachers and administrators.

Budget Amount \$100,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 03, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
6.5.1:	<p>Provide easy to use video conferencing to enhance communications and deliver on line staff development and student instruction.</p> <p>Comments: Depends on fiber network and video systems.</p>	<p>State: Revised</p> <p>Status: In Progress</p>	2007-2008	Technology Department	Staff will regularly utilize video conferencing as a tool for internal communications, staff development and student instruction.

LEA LRPT Correlates: EP01, EP03, EP04, EP05, EP06, EP08, I05, I06, I09, LAS02, LAS03, LAS05, LAS06, LAS10, LAS14, LAS15, TL05, TL08, TL09, TL10, TL13, TL15
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GOAL 7: Provide all users with effective, reliable, and secure technology solutions.**OBJECTIVE 7.1:**

Improve technology reliability.

Budget Amount \$3,000,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 03

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
<p>7.1.1: Build a dark fiber Metropolitan Area Network/Wide Area Network (MAN/WAN) spanning 100 square miles across the cities of Sachse, Garland, and Rowlett interconnecting all 80 buildings of the Garland ISD.</p> <p>Comments: Implementation will provide 12 strands of fiber running into the building with a backup of two strands of fiber that can be divided through Course Wave Division Multiplex (CWDM) into multiple strands.</p> <p>LEA LRPT Correlates: EP08, I01, I02, I03, I06, I07, I08, I09, LAS01, LAS02, LAS04, LAS05, LAS11, LAS14, LAS15, TL03, TL04, TL05, TL06, TL08, TL09, TL10, TL12, TL13, TL14, TL15, TL16</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>Maintenance and operations of fiber network will be ongoing.</p> <p>All schools will have fiber connectivity by May 2008.</p>	<p>MAN/WAN Systems Engineer, the Enterprise Communication Department and the Technology Department</p>	<p>114 miles of fiber optic cable have been placed underground and are being connected to 77 buildings. In May of 2008, all campuses and administrative buildings will be connected and have full access to digital video content along with uninterrupted data and video programming content.</p>
<p>7.1.2: Provide uninterruptible electrical power to the Network Operations Center (NOC).</p> <p>Comments: Power outages will be staged on a periodic basis to test the performance of the generator.</p> <p>LEA LRPT Correlates: I01, I02, I03, I05, I06, I07, I08, I09, LAS01, LAS02, LAS04, LAS05, LAS09, LAS10, LAS11, LAS14, LAS15, TL09, TL13, TL14, TL15, TL16</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>Ongoing maintenance of a 1.4 megawatt Holt Caterpillar diesel generator for electrical backup directly into the NOC.</p>	<p>The Systems Manager, the Enterprise Communications Department and the Technology Department along with ongoing maintenance directly from Holt Caterpillar)</p>	<p>Network Operations Center will maintain operational functionality during a power outage. Generator power will be tested on a weekly basis (every Wednesday for 30 minutes) at the Technology Building.</p>
<p>7.1.3: Implement off-site data storage and recovery capabilities for specific identified high priority application systems in the event of an unplanned unexpected disaster.</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>A Business System Continuance Recovery Process (BSCR) document has been approved by the Superintendents Cabinet. During the summer of 2008 a direct line will be</p>	<p>Enterprise Communication Department with approval from the Executive Administrator of Technology and the Superintendent's</p>	<p>Equipment is located at the downtown dallas disaster recovery site and ongoing backups are maintained.</p> <p>In event of a natural disaster data can successfully be recovered from storage.</p>

	LEA LRPT Correlates: EP08, I01, I02, I08, LAS02, LAS04, LAS05, LAS08, LAS11, LAS14, TL09		purchased to allow access to a Disaster Recover Site located in downtown Dallas on Ackard Street in the former Federal Loan building. Along with access space will be leased and implementation will begin. Summer 2007 and ongoing begin implementation	Cabinet	
7.1.4:	Utilize server clustering to improve stability and up-time. LEA LRPT Correlates: I02, I03, I06, I07, I08, I09, LAS01, LAS02, LAS04, LAS05, LAS09, LAS11, LAS14, LAS15, TL04, TL09, TL13	State: Revised Status: In Progress	Ongoing - Once the fiber MAN/WAN is lit in May of 2008, selected servers will be clustered at the Network Operations Center.	Director of Instructional Technology and the Technology Department	Centrally located servers at 410 Stadium Drive inside the Network Operations Center (NOC).
OBJECTIVE 7.2:					
Improve technology security.					
<i>Budget Amount \$100,000.00</i>					
<i>LRPT category: Leadership, Administration and Support</i>					
E-Rate Correlates: ER01, ER02					
NCLB Correlates: 12					
Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
7.2.1:	Implement various security agents across the district to prevent spamming, provide intrusion detection, implement anti-virus agents, and prevent denial of service attacks at the Internet, Intranet, desktop and server levels. Comments: This process is an ongoing process and is constantly increasing in price due to the increased usage of technology throughout the district. LEA LRPT Correlates: I02, I05, I08, LAS05, LAS07	State: Revised Status: In Progress	There is an ongoing process of installations and maintenance of up-to-date security agents for all firewalls, Internet, Intranet, desktop and laptop computers and servers throughout the district.	Director of Instructional Technology and the Technology Department.	Data will not be compromised by virus attacks, hacking attempts and malicious computing activities.
7.2.2:	Establish a process for Technology Department to work with other departments to identify and assess software titles which are compatible with the current network and are not security risks. Comments: Requires annual review and spot checks to ensure identification and understanding of new risks, and compliance to standards.	State: Revised Status: In Progress	Ongoing - Monthly Meetings	Assistant Superintendent of Instruction, Director of Instructional Technology and the software Evaluation Steering Committee.	All acquired software systems are compliant with our current network and security standards.

LEA LRPT Correlates:
EP01, EP07, EP09, I02,
I07, I08, LAS01, LAS05,
LAS07, LAS13, TL03,
TL06, TL08, TL16

OBJECTIVE 7.3:

Improve technology support.

Budget Amount \$20,000.00

LRPT category: Leadership, Administration and Support

E-Rate Correlates: ER01, ER02

NCLB Correlates: 12

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
7.3.1: Implement a software system which will provide inventory control, asset management, and help desk support for all technology purchases. This will help to specify the ratio of support personnel to the quantity of technical hardware and software to be supported. LEA LRPT Correlates: LAS07	State: Original Status: In Progress	Feb 2008 purchased School Dude software and implementation process is underway.	Systems Manager, Technology Supply Manager and the Technology Department.	All district technology purchases are inventoried and managed electronically. All Help desk maintenance activities are recorded electronically. This will allow the Technology Department to automatically trigger additional new hires for personnel as systems and user's grow. The result will be continued cycle time reduction when addressing end-user technology.
7.3.2: Establish a standard of high quality personnel through hiring practices, training, certification requirements, and continuing education opportunities. LEA LRPT Correlates: LAS07	State: Revised Status: In Progress	Ongoing and continuous.	Technology Department.	Highly functional employees and employees who have updated credentials through ongoing certification training as evidenced in yearly reviews.

OBJECTIVE 7.4:

Ensure Technology Alignment with District Leadership

Budget Amount \$5,000.00

LRPT category: Leadership, Administration and Support

E-Rate Correlates: ER01, ER02

NCLB Correlates: 01, 04a, 04b, 05, 07, 08, 11, 12

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
7.4.1: Analyze on-going project status, time lines, priorities, budgets, and software usage statistics for technology implementations throughout the district. Comments: If software or hardware usage statistics for a particular software are low, it will be evaluated and a determination to continue usage will be made. If software or	State: Revised Status: In Progress	Ongoing and continuous.	Executive Administrator of Technology, the Superintendent's Cabinet and the Technology Department.	Software and hardware usage statistics will be presented to the Superintendents cabinet for evaluation of learning effectiveness and usage. Continuous funding of technology projects though out the district.

<p>hardware usage is high and deemed effective, a funding decision will be made for implementation district-wide.</p> <p>LEA LRPT Correlates: EP01, EP02, EP03, EP04, EP09, I01, I02, I06, I09, LAS01, LAS02, LAS03, LAS04, LAS05, LAS06, LAS07, LAS08, LAS10, TL04, TL06, TL07, TL08, TL09, TL13, TL16</p>				
<p>7.4.2: Identify evaluation procedure for new software applications that include tracking capability and interoperability.</p> <p>Comments: If, software or hardware usage statistics for a particular software are low, it will be evaluated and a determination to continue usage will be made. If software or hardware usage is high and deemed effective, a funding decision will be made for implementation district-wide.</p> <p>LEA LRPT Correlates: I01, I08, LAS01, LAS07</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>Ongoing - Monthly Meetings of the Software Evaluation Steering Committee.</p>	<p>Assistant Superintendent of Instruction, Director of Instructional Technology and the software Evaluation Steering Committee.</p>	<p>All software acquired by the district will have the ability to provide metrics and usage statistics for evaluation by the Software Evaluation Steering Committee for presentation to the Superintendents Cabinet.</p>

GOAL 8: Maintain and enhance users' efficiency by keeping technology systems (equipment and software) up to date.

OBJECTIVE 8.1:

Acquire and implement new District integrated business/HR system.

Budget Amount \$9,000,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 04b, 05, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
8.1.1:	<p>Implement a new Oracle Business/HR system</p> <p>Comments: Additional reconciliations are being performed and system is to be functional by summer 2008</p> <p>LEA LRPT Correlates: EP03, I01, I06, I07, LAS07, LAS10, LAS14</p>	<p>State: Revised</p> <p>Status: In Progress</p>	Ongoing reconciliation of budget	Assistant Superintendent of Business and Garland Oracle Team	A system meeting the requirements of the Business Department
8.1.2:	<p>Implement a new Xiotech Storage Area Network (SAN)</p> <p>Comments: This will be an ongoing challenge due to the increased storage demands of the Oracle Business System and increased video capabilities throughout the district.</p> <p>LEA LRPT Correlates: EP03, I01, I02, I05, I06, I07, LAS01, LAS02, LAS04, LAS05, LAS07, LAS14, TL08, TL09</p>	<p>State: Revised</p> <p>Status: In Progress</p>	Ongoing - Yearly Evaluation of future storage needs.	Director of Information Technology, the Open Systems Manager and the Technology Department.	<p>GISD currently has 86 terabytes of Xiotech SAN storage.</p> <p>April of 2008 teh GISD Board of Trustees will approve and additional 4 terabytes and the hardware/software to upgrade the speed of the existing storage.</p>

OBJECTIVE 8.2:

Develop a Bond Tracking system throught Oracle.

Budget Amount \$2,000,000.00

LRPT category: Leadership, Administration and Support

E-Rate Correlates: ER01, ER02

NCLB Correlates: 05, 06, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
8.2.1:	<p>Develop a detailed, comprehensive accounting procedures to track bond monies.</p> <p>Comments: The District is almost ready to finalize the bond projects using the Oracle Business System</p> <p>LEA LRPT Correlates: EP03, I08, LAS02, LAS03, LAS04, LAS06, LAS14</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>Fall 2003 - Conduct needs assessment.</p> <p>Spring 2004 - Develop reporting structure.</p> <p>Summer 2004 - Implement accounting procedures district wide.</p> <p>Winter 2006 - Revise System</p> <p>Spring 2007 - Revise System</p> <p>Summer 2008 - Start Using New revised system</p>	Assistant Superintendent of Business and Garland Oracle Team	On-demand, periodic reporting of bond activity.

OBJECTIVE 8.3:

On-going replacement of out-of-date or out-of-warranty hardware and software.

Budget Amount \$10,645,000.00

LRPT category: Infrastructure for Technology

E-Rate Correlates: ER01, ER02

NCLB Correlates: 03, 05, 07, 08, 11, 12

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
<p>8.3.1: Create replacement funding strategy to replace pending out of warranty desktop computers, printers and projectors.</p> <p>Comments: GISD currently uses bond funding and left over end of year monies to replace computers. Investigation is underway to dedicate 2 cents of tax dollars yearly to fund the ongoing replacement of computers and projectors.</p> <p>LEA LRPT Correlates: EP03, I01, I02, I07, I08, LAS01, LAS02, LAS04, LAS08, TL08, TL10, TL11, TL12</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>Feb 2007 thru Feb 2011</p>	<p>Executive Administrator of Technology, the Assistant Superintendent of Business and the Superintendent's Cabinet</p>	<p>The district has currently funded and ordered 2500 of the replacements necessary. Ongoing funding will be needed to replace the additional 10,000 out of warranty computers.</p>
<p>8.3.2: Utilizing the replacement policy of keeping all software revisions current and up-to-date. GISD will define a time line & strategy to upgrade Novell operating system and Groupwise email software.</p> <p>Comments: This will be ongoing and occur on a yearly basis</p> <p>LEA LRPT Correlates: EP06, EP07, I01, I05, I06, I07, I08, I09, LAS01, LAS02, LAS03, LAS04, LAS05, LAS06, LAS10, TL09, TL10, TL12, TL13, TL14, TL15, TL16</p>	<p>State: Revised</p> <p>Status: In Progress</p>	<p>Ongoing ... Novell 6.5 will be updated across the district by August 2008 Groupwise is currently up-to-date at revision 7.03 but will be upgraded in 2009 to revision 8.0.</p>	<p>Network Engineering Manager, Network Engineer for email and Antivirus, Director of Instructional Technology and the Technology Department</p>	<p>Novell 6.5 and Groupwise 7.03 on every desktop</p>
<p>8.3.3: Replace approximately 2000 computers per year by receiving an annual portion of 2 cents of the annual tax rate for the Garland ISD tax revenue dedicated to technology hardware replacement including computers, printers and projectors.</p> <p>Comments: All replaceable items have a five year warranty and need to be replaced accordingly. 2 cents currently amounts to approximately 2 million dollars and may not be enough.</p> <p>LEA LRPT Correlates: EP03, EP06, EP07, I01, I02, I05, I06, I07, I08, LAS01, LAS02, LAS05, LAS14, TL09, TL11</p>	<p>State: Revised</p> <p>Status: Planned</p>	<p>2007 thru 2011</p>	<p>Executive Administrator of Technology, the Assistant Superintendent of Business and the Superintendent's Cabinet</p>	<p>Approximately 2000 Old/replaced computers removed from inventory yearly. Periodically replace out of warranty report card printers and smaller networked printers throughout the district. Periodically replace out of warranty projectors throughout the district.</p>
<p>8.3.4: Replace inventory of approximately 10,000 graphing calculators on a five-year cycle.</p>	<p>State: Original</p> <p>Status: In</p>	<p>2006-2010</p>	<p>Technology Department and School Improvement</p>	<p>The obsolete equipment will be replaced according to the plan.</p>

<p>Comments: In the spring of 2006, a request was approved in the budget process to start replacing approximately 20% of the current inventory of graphing calculators each year so that campuses could maintain an adequate inventory for testing as well as classroom instruction. In the summer of 2006, approximately 2,000 new TI-84 Plus "EZ Spot" units were purchased and distributed to campuses.</p>	<p>Progress</p>
<p>LEA LRPT Correlates: I09</p>	

Budget

Total amount of Title II, Part D formula funds received for the current year of this plan: \$100,000.00

Method of application for formula funds: Local Application

Budget year 2007		
Budget item	Cost	Funding Sources with amount per source
Staff Development	\$250,000.00	40% Title II Part D, 60% local
Telecommunications & Internet Access	\$600,000.00	100% E-Rate
Materials & Supplies	\$1,000,000.00	100% local
Equipment	\$18,200,000.00	100% local .38% E-Rate
Maintenance	\$878,000.00	100% local
Miscellaneous Expenses	\$916,000.00	100% local
Total	\$21,844,000.00	

Budget year 2008		
Budget item	Cost	Funding Sources with amount per source
Staff Development	\$250,000.00	40% Title II Part D, 60% local
Telecommunications & Internet Access	\$600,000.00	100% E-Rate
Materials & Supplies	\$1,100,000.00	100% local
Equipment	\$18,200,000.00	100% local .38% E-Rate
Maintenance	\$878,000.00	100% local
Miscellaneous Expenses	\$915,000.00	100% local
Total	\$21,943,000.00	

Budget year 2009		
Budget item	Cost	Funding Sources with amount per source
Staff Development	\$250,000.00	40% Title II Part D, 60% local
Telecommunications & Internet Access	\$600,000.00	100% E-Rate
Materials & Supplies	\$1,100,000.00	100% local
Equipment	\$18,200,000.00	100% local .38% E-Rate
Maintenance	\$878,000.00	100% local
Miscellaneous Expenses	\$915,000.00	100% local
Total	\$21,943,000.00	

Evaluation

Evaluation Process:

Superintendent's Cabinet

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The Technology Strategic Plan is evaluated annually and revised as necessary for the Superintendent's Cabinet to review. Numerous strategies facilitate this evaluation and revision process.

### Technology Evaluation

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The on-going evaluation of the technology program is carried out during regular (weekly, bi-weekly or monthly) Technology Department and project meetings to assess and evaluate daily planning and implementation issues of technology bond projects as well as on-going M&O Operations.

Software Evaluation

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Instructional software is placed within a management system in order to obtain usage data. This data is compared to TAKS results to determine the impact of instructional software and student success. This helps with the process of Return On Investment (ROI) and aids with the decision making process on whether to keep or discard a software product.

### Technology Department Responsibilities

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The administrators responsible for actions within the technology department include the:

Executive Administrator of Technology

Technology Project Manager

Director of Instructional Technology

Director of Information Technology

Campus Evaluations

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Through the Campus Technology Assistant(CTA)at each school, Technology Coordinators evaluate the effectiveness and usage of technology throughout the district.

### **Evaluation Method:**

Campuses review technology programs annually to assess their implementation of engaged-learning practices using technology. By identifying areas that need further attention and the steps needed to achieve their goals, campus leaders formulate a plan to improve technology integration on their campus.

Each campus and teacher will complete the TEA Technology Star Chart each year and submit it to the GISD Technology Department. This data will then be charted to indicate the district standing across the state.

At the conclusion of each staff development course, evaluation sheets are collected and analyzed by the Professional Development Department to ensure course offerings, presentation modality, and content meet the identified needs.

Campus hardware and software inventories are examined annually to determine which hardware and software needs to be replaced that year.

Each year, district hardware and software standards are reviewed. When necessary, items are thoroughly researched, acquired, and tested by Technology Department Personnel. If necessary, new BIDS for purchasing are developed.

To acquire usage data, instructional software is run under a management system. Data is used to determine the impact of instructional software on student TAKS scores.

## Appendix

**Attachment item A:**

Needs Assessment Matrix For Technology Strategic Plan

- Web site: <http://www.garlandisd.net/departments/technology.asp>

**Attachment item B:**

Strategic Planning For Technology Presentation

- Web site: <http://www.garlandisd.net/departments/technology.asp>

**Attachment item C:**

Tentative Fall 2002 Technology Bond Projects

- Web site: <http://www.garlandisd.net/departments/technology.asp>

**Attachment item D:**

Implementation Gant Chart

- Web site: <http://www.garlandisd.net/departments/technology.asp>

**Attachment item E:**

Alignment Matrix

- Web site: <http://www.garlandisd.net/departments/technology.asp>

**Attachment item F:**

Impact Matrix

- Web site: <http://www.garlandisd.net/departments/technology.asp>

**Attachment item G:**

Impact Chart

- Web site: <http://www.garlandisd.net/departments/technology.asp>

**Attachment item H:**

Career & Technology Education Bond Presentation

- Web site: <http://www.garlandisd.net/departments/technology.asp>

**Attachment item I:**

Sample Algebra 1 Unit from the Electronic Curriculum

- Web site: <http://www.garlandisd.net/departments/technology.asp>

**Attachment item J:**

Class Descriptions from the Intranet Registration Site. NOTE: PLEASE REFER TO ADDITIONAL APPENDICES K-Z ALSO LOCATED AT ABOVE-REFERENCE URL, LISTED AS FOLLOWS: APP K: Training Sessions with CCC (2001-2002) APP L: Garland ISD NETg Course Offerings APP M: General Network Overview Diagram APP N: Technology Center Overview Diagram APP O: Physical & Logical Proxy Connectivity Diagram APP P: Technology to Remote Sites with Gradebook Configuration APP Q: District Hardware Inventory (Feb 2002) APP R: District Hardware Standards APP S: District Acceptable Use Policy APP T: List of Ongoing Technology Projects (Mar 2002) APP U: Technology Budget (2001-2005) APP V: Electronic Communication and Data Management Board Policy APP W: Infrastructure APP X: Professional Staff Development Budget (2002-2005) APP Y: Technology Budget (2004-2004) APP Z: District Compliance with Child Internet Protection Act (CIPA)

- Web site: <http://www.garlandisd.net/departments/technology.asp>

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Garland 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.