

# **Northside ISD Technology Plan**

**2008 - 2011**

**John Folks**

**Superintendent**

# DISTRICT PROFILE

**ESC Region** 20  
**City, State Zip** San Antonio, TX 78238  
**Phone** (210) 397-8770  
**Fax** (210) 706-8772  
**County District Number** 015915

<b>Number of Campuses</b>	97
<b>Total Student Enrollment</b>	86246
<b>District Size</b>	50,000 and over
<b>Percent Econ. Disadvantaged</b>	46.30%

<b>Technology Expenditures</b>	<b>\$82,492,256.00</b>
<b>Technology budgets reported in plan by category</b>	Teaching and Learning Budget \$20,623,064.00 Educator Preparation and Development Budget \$20,623,064.00 Leadership, Administration and Support Budget \$4,124,613.00 Infrastructure for Technology Budget \$37,121,515.00 <b>Total: \$82,492,256.00</b>
<b>Technology Expenditure Per Pupil</b>	\$956.48
<b>Number of Campuses with Direct Connection to Internet</b>	97
<b>Percentage of Campuses with Direct Connection to Internet</b>	100.00%
<b>Number of Classrooms with Direct Connection to Internet</b>	4654
<b>Percentage of Classrooms with Direct Connection to Internet</b>	100.00%
<b>Computer/Student Ratio</b>	3 student(s) for every computer
<b>Computer/Teacher Ratio</b>	1 teacher(s) for every computer
<b>Number of campuses that need to complete the Texas Campus STaR Chart</b>	97
<b>Percentage of campuses that have completed the Texas Campus STaR Chart</b>	100.00 %

# Plan Introduction

Plan Last Edited 12/13/2007

<b>Plan status:</b>	submitted
<b>Years Included in the Plan:</b>	2008 - 2011
<b>Number of years covered by the plan:</b>	3

## Technology Planning Committee

Stakeholders who had significant input into the development of this plan were:

22 members of the District Strategic Planning Committee

120 members of the District Citizens' Bond Committee

19 members of the Superintendent's Cabinet

Kelly Smith, Assistant Superintendent for Technology Services

Diana Goering, Executive Director, Integrated Information and Infrastructure Services

Gerri Collier, Director, Integrated Information Services

John Evans, Director, Technology Acquisitions and Project Management

Lori Jones, Director, Integrated Infrastructure Services

Jana Knezek, Director, Library and Textbook Services

Joyce Stevens, Director, Academic Technology Services

Elizabeth Langer, Director, Technology Training and Development Services

# Executive Summary

## District Mission

Northside Independent School District is committed to the belief that children come first. The mission of the district is to encourage each student to strive for personal excellence and to ensure all students learn to function, contribute, and compete as responsible individuals in an ever-changing world.

## Goal for Technology

The current NISD Strategic Plan includes a priority goal for technology to: "Develop and sustain a dynamic, integrated infrastructure of human, technological and management resources that empowers all stakeholders to enable students to learn to their fullest potential."

## Integrated Service Approach

Utilizing an "integrated technology service" approach, the NISD Technology Services Division is prepared to meet legal requirements, respond to the diverse needs of campus and district end-users, and provide exemplary service and support in order to advance the effective use of technology throughout the District.

## Technology Areas of Service

The Technology Services Division is organized into six integrated areas of service. These service areas provide a variety of comprehensive leadership, service and support initiatives that advance the effective use of technology in Northside. The Technology Areas of Service include:

### 1. Technology Management Services

Develops, implements and oversees technology-related standards, policies, procedures, revenues, acquisitions and security throughout the District

### 2. Academic Technology Services

Responsible for state technology curriculum requirements (TEKS for Technology; Applications K-12), integration of technology into foundation and enrichment curricula, and technology support for Curriculum and Instruction

### 3. Library and Textbook Services

Provides support and leadership for campus librarians and library programs by delivering professional development, online circulation and library catalog, centralized cataloging and provides for the ordering, distribution, and management (soon to be electronic) of all state adopted textbooks.

### 4. Technology Training & Development Services

Designs and delivers standards-based technology staff development for teachers, administrators, and support staff. Learning opportunities include online modules, study/user groups, tutorials, classes, readings, visits, lesson and product development, independent learning, coaching and mentoring.

### 5. Integrated Infrastructure Services

Responsible for the design, management and operation of stable and robust instructional, administrative, and operational systems which provide fully integrated voice, video, and data to meet federal, state, and local legal requirements, and bring information to the user's desktop

### 6. Integrated Information Services

Responsible for business and student data collection, analysis, usage and reporting required to meet federal, state, and local legal requirements as well as application development to meet end-user needs

## Focus on Classroom Instruction

Every teacher in Northside ISD has been provided with an Internet-connected classroom computer, personal printer, display system, VoIP classroom telephone, and a variety of web-based applications and resources. Additionally, K-12 teachers and students have access to computer labs and libraries where technology skill development, research, work related to technology-infused projects, and instructional interventions can be accomplished.

Every regular education campus in Northside has a Campus Instructional Technologist and a Librarian who serve as excellent resources and technology support persons for classroom teachers. They assist teachers with planning and teaching technology integration activities and projects that help students learn content objectives and reinforce learning. We believe technology can be a tremendous asset towards:

- Improving Student Academic Performance
- Developing Higher Order Thinking and Problem Solving Skills
- Improving Student Motivation, Attitude and Interest in Learning
- Preparing Students for Collaboration and the Workforce
- Addressing Needs of Low-Performing, At-Risk, Disabled, and other Special Populations
- Developing Information Access and Information Literacy Skills for Life Long Learning

With a strategic mission, a priority goal, an integrated approach and focus on teaching and learning, Technology in Northside is used on a daily basis to:

### Increase Student Achievement

- Assist Students with Special Needs
- Develop Information Literacy
- Increase Productivity & Efficiency
- Increase Cost Effectiveness
- Increase Motivation, Attitude & Interest
- Increase Communication, and
- Support Lifelong Learning.

# Needs Assessment

## Assessment Process:

District-wide Technology Review and 10-Year Technology Master Plan

The Northside Independent School District retained Elert & Associates in July 2001 to assist the District in the review of its technology resources and uses, and to help plan for the future uses of technology at Northside ISD. In March 2002, Elert & Associates published the Northside ISD Technology Master Plan 2002-2012: Implementing Excellence. The plan, developed in collaboration with more than 36 Northside ISD staff members, delineated recommendations in six categories:

1. Organizational Structure and Communication
2. Integrated Information Systems
3. Infrastructure and Access
4. Staffing and Support
5. Staff Development
6. Technologies for Instructional Programs

Technology Services provided status reports to the Superintendent and Board in July, 2004 and January, 2007 regarding the implementation of the Technology Master Plan. These reports provided necessary feedback to allow technology planning and implementation processes to adapt to instructional, administrative, operational and technological changes. The status reports enabled Technology Services to continue to focus on important technology initiatives to advance the effective use of technology throughout the District. The status reports afforded new opportunities for discussion and thinking among staff and other stakeholders to ensure that the Technology Services Division is successful in supporting the mission, strategies, and beliefs of the District.

In the nearly six years since the development and conveyance of the Technology Master Plan, most of the recommendations have been successfully completed, a few are in various stages of planning and implementation and a few have purposefully not been undertaken for a variety of reasons (e.g. prohibitive costs, changes in technology, unachievable due to workload, other District priorities).

Although the Technology Master Plan 2002-2012 was an important part of the planning process, district technology initiatives are now often guided by newer and more relevant planning documents. These include the NISD District Improvement Plan 2003-2008 and DIP Yearly Activities across all eight priority areas, the NISD 2005-2008 Technology Plan, and the Texas Long-Range Plan for Technology 2006-2020. In January, 2008, the District will begin the development of the NISD District Improvement Plan 2008-2013. This plan will also include strategic planning for technology.

## Divisional Assessment and Planning

The Technology Services Leadership Team meets weekly to discuss progress towards written goals and objectives, as established by the District Strategic Improvement Plan and the District Technology Plan. Frequent team and committee meetings ensure the periodic review of contracts, systems, programs, and funding to ensure the efficient and effective uses of current and emerging technology. Self-assessment, committee-assessment, and professional, contracted reviews are all utilized for on-going assessment and planning.

## Campus STaR Charts

The Campus Texas School Technology and Readiness (STaR) Chart from The Texas Education Agency (TEA) is utilized each year as a tool for self-assessment and planning of effective technology integration across the curriculum. Ninety seven campuses successfully completed the STaR Chart. This past school year, over 5,500 Northside ISD teachers completed the Teacher STaR Chart. Campuses and the District will use the STaR Chart data to help determine funding priorities, provide information for technology planning, and measure the impact of state and local efforts to improve student learning through the use of technology.

The Northside ISD Board of Trustees, including its Technology Committee, also reviews needs and provides strategic input and approval for all major technology initiatives in the District.

## Existing Conditions:

All Northside ISD sites (schools and central office facilities) are connected to the District-wide area network (WAN). The current switched Ethernet WAN architecture utilizes a star topology with all locations connected via AT&T GigaMan link from the NISD central office. The telecommunications closets at each campus are interconnected with fiber optic cabling with connectivity of 100MB and/or 1000MB, utilizing Cisco layer 2 and layer 3 switches. All station cabling as a minimum is category 5e that is certified to transmit at 155 MB and higher. The District has a 500MB connection to the Internet.

The District launched a successful year-long project to implement a new telephone system District-wide using Voice over IP (VoIP) in January 2003. The VoIP project enabled the District to put telephones in every classroom (an additional 4,000 phones), using the network already in the buildings to accommodate both voice and data. A wide variety of services are provided, including voicemail, conference calling, directory information, auto attendant, and more.

Northside ISD will soon become the largest school district in the state to go completely wireless, giving students, teachers, and staff access to the Internet anywhere and any time at all campuses. Internet coverage and NISD network access will be available throughout all campuses, including classrooms, libraries, cafeterias, gymnasiums, and outdoor common areas to support a wide variety of instructional and administrative applications. The installation will be complete by the end of 2008.

The district's first wireless one-to-one computing environment was implemented in August 2006 at Business Careers High School (BCHS). This initiative provided a wireless laptop computer to all BCHS students and staff and offers them significantly increased access to a wide range of software, electronic documents, the Internet, and other digital resources for superior teaching and learning. The wireless one-to-one computing initiative at BCHS focuses on five goals:

1. Improving student academic achievement through appropriate use of technology
2. Increasing the marketability and academic competitiveness of BCHS students by preparing them more effectively for today's technology-

driven workplaces and universities

3. Increasing equity of access to technology and digital resources by BCHS students, thereby reducing the digital divide
4. Improving the quality of student-centered, differentiated instruction at BCHS
5. Utilizing technology to assist BCHS in becoming the premier business magnet school in the nation

NISD's popular Parent Connection (<http://www.nisd.net/parentconnection>) provides information for parents. Parents of students in grades one through twelve have real-time online access to:

- \*\* their child's daily grades and attendance records, directly from teachers' gradebooks
- \*\* their child's longitudinal enrollment and academic data, directly from the District Curriculum Management System (school enrollment, total days absent, course enrollment and teachers, course credits and cycle grades, TAKS and other standardized assessment results)
- \*\* important news and announcements especially for parents
- \*\* future plans are to add online payments (cafeteria and other), as well as current year discipline information.

A modular Integrated Security Management System (ISMS) operates over the Northside ISD Wide Area Network and provides digital video surveillance, access control, alarm monitoring, and badging identification. The system was implemented at all high schools during the 2005-06 school year. All middle schools will be completed by fall 2008. The purchase of an ISMS was identified as a high-priority need to support the District Strategic Improvement Plan goals for Safe and Secure Schools, Technology, and Facilities.

Technology Services began providing secure network file storage for students at all secondary schools in August 2006. The solution includes an easy-to-use front end web interface to allow students to store and retrieve their data from anywhere in the District (i.e. library, computer lab, classroom, etc.) and from off-campus where Internet access is available. Students are required to have a User ID and Password for the system.

A new district-wide Elementary Gradebook was officially launched on August 21, 2006. All secondary schools began using this gradebook in August 2007. The gradebook is Web-based, so it may also be used from home if Internet access is available. Besides recording grades and attendance, educators may also view important information such as parent contacts, special programs, and TAKS mastery that is automatically included in the gradebook. Teachers may also record information such as textbook numbers, field trip permission, and tutoring groups in the gradebook. Overall, this new tool is overwhelmingly popular and its implementation has been very smooth.

The District has implemented UnitedStreaming, a digital video-on-demand product from Discovery Education. This research-based instructional resource includes over 5,000 full length educational videos, 50,000 video content clips, 28,000 images, and a variety of teacher materials. All media and materials are aligned to TEKS, updated daily, and delivered to the computer desktop (video may be downloaded or "streamed" live). Not only can this content be used by all NISD educators, but it can also be used by students in the creation of their own digital media connected to their learning. Professional development is ongoing for all teachers, campus technologists, librarians, and administrators.

#### **Technology Needs:**

A \$693 million bond was passed by the voters on May 12, 2007. All elements of the Technology and Security portion of this bond program were identified as needs and will be implemented over the next four years:

- I. Campus-wide Technology Lifecycle Replacements (35 campuses)
- II. District-wide Technology Infrastructure
  - A. Voice systems hardware replacement
  - B. Upgrade WAN
  - C. District Data Center servers
  - D. eLearning servers and storage
  - E. Instructional and operational servers
  - F. Cabling, wiring, MDF/IDF equipment
- III. School Security for Middle Schools (21 campuses)
- IV. Mounted Digital Projectors in Classrooms (almost 5,500)

In addition, funding has been allocated for these previously identified needs, which will be implemented over the next three years:

- I. A new Business/HR Management System
- II. A new Student Information System
- III. A District Data Warehouse

#### **Campus STaR Chart Data**

The goals and strategies included in this three-year District Technology Plan will enable us to move along the target technology continuum as identified by the Texas Education Association. The District Summary of the Campus STaR Chart data for 2007-08 indicates the following self-assessment results:

1. Teaching and Learning, Developing (High End)
2. Educator Preparation, Developing (High End)
3. Administration and Support, Advanced Tech (Low End)
4. Infrastructure for Technology, Advanced Tech (Low End)

# Goals, Objectives, and Strategies

**GOAL 1: Ensure that students demonstrate mastery of clearly defined technological skills required to support student achievement and lifelong learning through information acquisition, critical thinking, problem solving, and communication.**

**OBJECTIVE 1.1:**

Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12.

*Budget Amount \$4,124,613.00*

*LRPT category: Teaching and Learning*

E-Rate Correlates: ER01, ER02

NCLB Correlates: 01, 02, 04a, 04b, 06, 07, 08, 10, 11

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
<p>1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</p> <p>LEA LRPT Correlates: EP01, EP02, EP03, EP04, EP05, EP06, EP07, EP08, EP09, I03, LAS01, LAS03, LAS05, LAS06, LAS10, LAS12, LAS13, TL01, TL02, TL03, TL05, TL06, TL08, TL10, TL11, TL12, TL14, TL16</p>	<p>State: Original</p> <p>Status: In Progress</p>	<p>2008-2011</p>	<p>Technology Services</p>	<p>Workshop calendars, workshop attendance data, workshop agendas, published lesson plans, activities and other curriculum documents</p>
<p>1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.</p> <p>LEA LRPT Correlates: I09, LAS08, TL04, TL05, TL06</p>	<p>State: Original</p> <p>Status: Planned</p>	<p>2008-2009</p>	<p>Technology Services, Curriculum &amp; Instruction, Administration</p>	<p>Acquisition documents, student and campus reports</p>
<p>1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.</p> <p>LEA LRPT Correlates: EP01, EP02, EP05, EP06, EP07, EP08, LAS03, LAS10, TL01, TL02, TL03, TL05, TL08, TL12, TL13, TL14, TL16</p>	<p>State: Original</p> <p>Status: In Progress</p>	<p>2008-2011</p>	<p>Technology Services</p>	<p>Professional development calendars, professional development attendance data, professional development agendas, published lesson plans, activities and other curriculum documents</p>

**OBJECTIVE 1.2:**

Provide instructional and technical support for core and enrichment content areas and instructional initiatives to support student success and achievement.

*Budget Amount \$7,218,072.00*

*LRPT category: Teaching and Learning*

E-Rate Correlates: ER01

NCLB Correlates: 01, 02, 03, 04a, 05, 06, 07, 08, 11, 12

Strategies	State/Status:	Timeline:	Person(s) Responsible:	Evidence:
<p>1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.</p> <p>LEA LRPT Correlates: EP03, EP08, I01, I06, I09, LAS08, TL04, TL07</p>	<p>State: Original</p> <p>Status: In Progress</p>	<p>2008-2011</p>	<p>Technology Services, Curriculum &amp; Instruction, Administration</p>	<p>Online Testing Committee meeting agenda, Work Orders for testing software installations, CMS reports</p>
<p>1.2.2: Subscribe to multiple online databases (e.g., EBSCO,</p>	<p>State:</p>	<p>2008-</p>	<p>Technology</p>	<p>Acquisition documents, usage</p>

	Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.  LEA LRPT Correlates: EP01, I03, I05, I06, I09, LAS01, LAS09, LAS10, TL01, TL05, TL08, TL09, TL10, TL11, TL13	Original  Status: In Progress	2011	Services, Curriculum & Instruction	data
1.2.3:	Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.  LEA LRPT Correlates: I01, I03, I05, I09, LAS01, LAS02, LAS03, LAS08, LAS10, LAS15, TL08, TL09, TL10, TL11, TL12, TL13	State: Original  Status: Planned	2008-2009	Technology Services	Acquisition documents, usage data, training materials
1.2.4:	Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.  LEA LRPT Correlates: I05, I09, LAS01, LAS02, LAS08, LAS10, TL04, TL05, TL07, TL09, TL13	State: Original  Status: In Progress	2008-2011	Technology Services, Curriculum & Instruction	Acquisition documents, usage data, Work Orders, student progress data and reports
1.2.5:	Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.  LEA LRPT Correlates: EP03, EP08, EP09, I01, I03, I09, LAS01, LAS02, LAS05, LAS08, TL04, TL07, TL08, TL16	State: Original  Status: In Progress	2008-2011	Technology Services, Curriculum & Instruction	Professional development calendars, training materials, usage data, teacher web sites, student reports

**OBJECTIVE 1.3:**

Research and implement strategies for providing additional access for students to instructional technologies.

*Budget Amount \$9,280,379.00*

*LRPT category: Teaching and Learning*

E-Rate Correlates: ER01

NCLB Correlates: 01, 02, 03, 05, 06, 08, 12

<i>Strategies</i>	<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.  LEA LRPT Correlates: I01, I02, I03, I04, I05, I09, LAS01, LAS09, TL08, TL09, TL12, TL13, TL14	State: Original  Status: Planned	2008-2009	Technology Services, Administration	AUP documents, network monitoring logs/reports, student discipline data, student and staff survey data
1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).  LEA LRPT Correlates: I01, I02, I03, I04, I05, I06, I07, I08, I09, LAS01, LAS02, LAS04, LAS05, LAS07, LAS13, TL08, TL09, TL10, TL11	State: Original  Status: In Progress	2008-2011	Technology Services, Business & Finance	Deployment calendars, software licensing documents, acquisitions documents, technical evaluation reports, lifecycle management documents
1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.  LEA LRPT Correlates: EP01, EP02, EP04, EP05, EP08, EP09, I02, I03, I04, I05, I07, I09, LAS01,	State: Original  Status: In Progress	2008-2011	Technology Services, Curriculum & Instruction	Help Desk data, staff development calendars and agendas, training materials, AUP violation reports, student products

LAS02, LAS03, LAS07, LAS10, LAS12, LAS13, LAS15, TL01, TL02, TL03, TL04, TL05, TL08, TL09, TL10, TL11, TL12, TL13, TL14, TL16				
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**GOAL 2: Ensure that all employees demonstrate mastery of appropriate, clearly defined technological skills and competencies required for performance of their jobs.**

**OBJECTIVE 2.1:**

Provide face-to-face technology-related training and professional development for employees that align with the NISD Technology Core Competencies.

*Budget Amount \$16,498,451.00*

*LRPT category: Educator Preparation and Development*

E-Rate Correlates: ER02

NCLB Correlates: 01, 02, 04a, 04b, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
2.1.1:	Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.  LEA LRPT Correlates: EP01, EP04, EP05, EP09, LAS03, LAS06, LAS10, LAS12, TL01, TL08, TL16	State: Original  Status: In Progress	2008-2011	Technology Services	Training calendars, participant sign-in sheet, materials
2.1.2:	Continue the Q.U.A.D. (Quality, Usable, Accurate Data) initiative to train personnel District-wide on the use of various information management systems.  LEA LRPT Correlates: EP03, LAS02	State: Original  Status: In Progress	2008-2011	Technology Services, Administration	Training calendars, participant sign-in sheet, materials, Q.U.A.D. website resources
2.1.3:	Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.  LEA LRPT Correlates: EP03, EP04, LAS03, LAS06, LAS08, LAS10, TL04, TL05, TL07	State: Original  Status: In Progress	2008-2011	Technology Services, Curriculum & Instruction, Administration	Training calendars, participant sign-in sheet, materials

**OBJECTIVE 2.2:**

Provide online technology-related training and professional development course offerings, online training resources, and online assessment opportunities that align with the NISD Technology Core Competencies.

*Budget Amount \$4,124,613.00*

*LRPT category: Educator Preparation and Development*

E-Rate Correlates: ER01, ER02

NCLB Correlates: 01, 02, 03, 04a, 04b, 06, 08, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
2.2.1:	Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.  LEA LRPT Correlates: EP01, EP02, EP03, EP04, EP05, EP08, EP09, I01, I05, I09, LAS03, LAS06, LAS10, TL08, TL16	State: Original  Status: In Progress	2008-2011	Technology Services	Online course content, usage data, course grades
2.2.2:	Expand the use of the District's Webinar (Web-based seminar) solution for online professional development, information dissemination and communication.  LEA LRPT Correlates: EP08, I01	State: Original  Status: Planned	2008-2011	Technology Services	Webinar schedules, participant lists, usage data

**GOAL 3: Acquire and align fiscal and human resources to support technology use throughout the Organization.**

**OBJECTIVE 3.1:**

Strategically administer technology budgets and processes to improve technology service and support throughout the District.

*Budget Amount \$1,443,614.00*

*LRPT category: Leadership, Administration and Support*

E-Rate Correlates: ER01

NCLB Correlates: 03, 05, 06, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
3.1.1:	Manage special revenue budget processes and expenditures to effectively use technology to meet instructional and operational needs throughout the District. (e.g., E-rate, Title II Part D, Technology Bond Program, State Technology Allotment, grants and partnerships)  LEA LRPT Correlates: LAS01, LAS02, LAS04, LAS05, LAS07, LAS13	State: Original  Status: In Progress	2008-2011	Technology Services, Business & Finance	Budget documents, purchase orders, E-rate documents, bids, quotes, RFPs, NCLB application and evaluation documents
3.1.2:	Collaborate with the Purchasing Department and vendors to aggressively seek competitive pricing on all technology hardware, software, and systems.  LEA LRPT Correlates: LAS02, LAS04, LAS05	State: Original  Status: In Progress	2008-2011	Technology Services, Business & Finance	RFPs, bids, quotes, other acquisition documents
3.1.3:	Utilize an integrated project management and service delivery approach to optimize human resources, increase efficiency, reduce costs, and better address end-user needs.  LEA LRPT Correlates: LAS01, LAS02, LAS04, LAS05	State: Original  Status: In Progress	2008-2011	Technology Services	Project planning documents, project schedules and calendars, Help Desk data

**OBJECTIVE 3.2:**

Continue to foster a work environment that attracts and inspires excellence in employees so that Technology Services is successful in its mission and employees are more productive and satisfied.

*Budget Amount \$824,923.00*

*LRPT category: Leadership, Administration and Support*

E-Rate Correlates: ER02

NCLB Correlates: 04b, 10, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
3.2.1:	Provide ongoing training opportunities for technology staff, including courseware from Atomic Learning and the Dell Learner Management System.  LEA LRPT Correlates: LAS01, LAS02, LAS03	State: Original  Status: In Progress	2008-2011	Technology Services	Training certificates and transcripts, purchase orders for training services
3.2.2:	Continue the Technology Services' Quarterly Staff Development and Employee Recognition Program as a means of increasing motivation, collegiality, collaboration, communication, and morale in the workplace.  LEA LRPT Correlates: LAS01	State: Original  Status: In Progress	2008-2011	Technology Services	Meeting schedules and sign-in sheets, training materials, recognition certificates

**GOAL 4: Develop, implement, and periodically review policies, plans, and procedures that standardize and streamline the evaluation, procurement, deployment, support, maintenance, and management of current, new, and emerging technologies.**

**OBJECTIVE 4.1:**

Continually refine technology acquisitions practices and procedures to sustain and support technology requirements across the District.

*Budget Amount \$618,692.00*

*LRPT category: Leadership, Administration and Support*

E-Rate Correlates: ER01

NCLB Correlates: 02, 03, 05, 06, 07, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
4.1.1:	Develop and implement a new customer-driven process, including an online system, for the evaluation, acquisition, and installation of new hardware and software.  LEA LRPT Correlates: LAS02	State: Original  Status: Planned	2008-2009	Technology Services	Online tool, usage data
4.1.2:	Align budget submissions (Bond, M&O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.  LEA LRPT Correlates: LAS01, LAS02, LAS04, LAS05, TL09	State: Original  Status: In Progress	2008-2011	Technology Services, Business & Finance	Budget documents, lifecycle documents
4.1.3:	Conduct cost/benefit analyses to guide strategic decisions regarding future purchases of technology solutions.  LEA LRPT Correlates: LAS01, LAS02, LAS04, LAS05	State: Original  Status: In Progress	2008-2011	Technology Services	Bids, quotes, cost comparisons, analysis reports

**OBJECTIVE 4.2:**

Effectively respond to incidents and disasters involving technology components.

*Budget Amount \$1,237,384.00*

*LRPT category: Leadership, Administration and Support*

E-Rate Correlates: ER01

NCLB Correlates: 03, 05, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
4.2.1:	Evaluate incident response data (e.g., AUP violations, security threats, spam, viruses) and refine processes, procedures, and technical solutions to decrease the number of occurrences.  LEA LRPT Correlates: LAS01, LAS02, LAS04, TL14	State: Original  Status: In Progress	2008-2011	Technology Services	Incident response data, written procedures, administrative regulations, Board policies, acceptable use agreements
4.2.2:	Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.  LEA LRPT Correlates: I01, I02, I03, I07, LAS01, LAS02, LAS04, LAS14, TL09	State: Original  Status: In Progress	2008-2011	Technology Services, Facilities	Disaster Recovery Plan, acquisition documents for redundant site equipment

**GOAL 5: Provide and sustain a secure, robust, reliable, and flexible infrastructure that ensures multi-directional accessibility, links fully equipped facilities, and supports current, new, and emerging technologies.**

**OBJECTIVE 5.1:**

Utilize technology systems to foster a safe and secure school environment.

*Budget Amount \$12,106,176.00*

*LRPT category: Infrastructure for Technology*

E-Rate Correlates: ER01

NCLB Correlates: 05, 06, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
5.1.1:	Collaborate with other departments to implement the Integrated Security Management System, which includes video surveillance, alarm monitoring, access control, and ID badging, for 15 middle schools, three special schools, and selected central office facilities.  LEA LRPT Correlates: I01, LAS01, LAS02	State: Original  Status: In Progress	January 2008 - September 2008	Technology Services, Facilities, Administration	Design documents, installation schedules, equipment purchase orders, training materials and schedules
5.1.2:	Implement and support a new Internet filter (8e6).  LEA LRPT Correlates: EP03, I01, I03, I05, LAS02, LAS04, LAS05, TL09	State: Original  Status: In Progress	January 2008-2011	Technology Services	Acquisition documents, configuration document, written procedures, communication documents
5.1.3:	Explore the possibility of implementing a District-wide voice/messaging callout system.  LEA LRPT Correlates: I01, I08	State: Original  Status: Planned	2008-2009	Technology Services, Communications, Administration	Implementation documents from Campusware
5.1.4:	Explore the possibility of implementing a District-wide campus visitor identification system.  LEA LRPT Correlates: I01, I06, I08, LAS02, LAS09	State: Original  Status: Planned	2008-2009	Technology Services, Administration	RFI, RFP
5.1.5:	Explore the possibility of implementing a District-wide bus/student/district vehicle transportation tracking system.  LEA LRPT Correlates: I01, LAS02	State: Original  Status: Planned	2008-2009	Technology Services, Administration	RFI, RFP

**OBJECTIVE 5.2:**

Acquire, develop, and implement targeted information management systems to support administration and operations.

*Budget Amount \$10,166,733.00*

*LRPT category: Infrastructure for Technology*

E-Rate Correlates: ER01

NCLB Correlates: 03, 05, 06, 09, 12

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
5.2.1:	Acquire and implement a district Data Warehouse.  LEA LRPT Correlates: I01, I09, LAS02, LAS08, LAS14	State: Original  Status: In Progress	2008-2011	Technology Services, Cabinet	RFP, evaluation documents, contract, implementation plan, training and change management plan
5.2.2:	Acquire and implement a new Business/HR Information System.  LEA LRPT Correlates: I01, I05, LAS01, LAS02,	State: Original  Status: In	2008-2011	Technology Services, Business & Finance, Human Resources	RFP, evaluation documents, contract, implementation plan, training and change management plan

	LAS03, LAS08, LAS14	Progress			
5.2.3:	Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.  LEA LRPT Correlates: I01, I03, I08, I09, LAS02, LAS09, LAS11	State: Original  Status: In Progress	2008-2009	Technology Services, Business & Finance, Administration	Letters to parents, training documents for parents and staff, additional online functionality
5.2.4:	Begin pre-acquisition planning for a new Student Information System.  LEA LRPT Correlates: I01, LAS01, LAS02, LAS08, LAS11	State: Original  Status: Planned	2009-2010	Technology Services	Research articles, draft RFP
5.2.5:	Begin pre-acquisition planning for a Image/Document/Content Management System.  LEA LRPT Correlates: I01, I05, LAS02, LAS14	State: Original  Status: Planned	2008-2009	Technology Services, Business & Finance, Human Resources	Research documents, draft RFP

**OBJECTIVE 5.3:**

Continuously review, design, and implement infrastructure and network enhancements (security, management, redundancy) to meet instructional and operational needs (voice, video, and data).

*Budget Amount \$14,848,606.00*

*LRPT category: Infrastructure for Technology*

E-Rate Correlates: ER01

NCLB Correlates: 03, 05, 06, 08, 12

<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
5.3.1:	Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.  LEA LRPT Correlates: I01, I03, I04, I05, I07, I09, LAS01, LAS04, LAS09, LAS14, TL08, TL09, TL10, TL11, TL12, TL13, TL14, TL15	State: Original  Status: In Progress	January 2008 - December 2008	Technology Services, Facilities	Design documents, installation schedules, equipment purchase orders, usage data
5.3.2:	Continue to transition all campuses and end-users from a Novell network environment to a Microsoft Active Directory environment.  LEA LRPT Correlates: I01, I05, I07, I09, LAS02, LAS14	State: Original  Status: In Progress	2008-2009	Technology Services	Project planning documents, installation schedules, Work Order data
5.3.3:	Acquire and implement software packaging and distribution tools to facilitate software installs, adds, moves, and changes in order to better meet customers' needs.  LEA LRPT Correlates: I01, I05, I07, I09, LAS01, TL09	State: Original  Status: Planned	2008-2009	Technology Services	Purchase orders, Work Order data, written procedures
5.3.4:	Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.  LEA LRPT Correlates: I05, I09, LAS01, LAS07, TL05, TL08, TL09, TL12	State: Original  Status: In Progress	2008-2010	Technology Services, Facilities	Installation schedules, equipment purchase orders
5.3.5:	Acquire and implement a password synchronization tool to provide the capability for users to maintain a single password that is subject to a single security policy, and changes on a single schedule across multiple systems, where possible.  LEA LRPT Correlates: LAS02, LAS14	State: Original  Status: Planned	2008-2009	Technology Services	RFP, purchase orders, project planning documents, communication documents
5.3.6:	Purchase and implement voice systems hardware	State:	2008-2011	Technology Services	Acquisition documents,

	replacement (12 servers and switching equipment) to support additional capacity for new schools and lifecycle replacement.  LEA LRPT Correlates: I01, I05, I07, I08, LAS02, LAS14	Original  Status: Planned			project planning documents, installation schedules
5.3.7:	Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.  LEA LRPT Correlates: I01, I02, I03, I07, LAS01, LAS02, LAS04	State: Original  Status: Planned	2010-2011	Technology Services, Facilities	Project planning documents, acquisition documents
5.3.8:	Implement new servers at the District Data Center to eliminate/consolidate campus servers.  LEA LRPT Correlates: I01, I02, I03, I07, LAS01, LAS02, LAS14	State: Original  Status: Planned	2009-2011	Technology Services	Project planning documents, installation schedules, acquisition documents
5.3.9:	Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.  LEA LRPT Correlates: EP08, I01, I05, I09, TL09, TL13	State: Original  Status: Planned	2008-2011	Technology Services	Acquisition documents, installation schedules
5.3.10:	Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.  LEA LRPT Correlates: I01, I02, LAS01, LAS02, LAS04	State: Original  Status: Planned	2008-2011	Technology Services, Facilities	Acquisition documents, design documents, installation schedules

# Budget

Total amount of Title II, Part D formula funds received for the current year of this plan: \$145,517.00

Method of application for formula funds: Local Application

<b>Budget year 2008</b>		
<b>Budget item</b>	<b>Cost</b>	<b>Funding Sources with amount per source</b>
Staff Development	\$2,449,794.00	Local: \$1,172,281; Title II D: \$47,513; State Allot: \$1,230,000
Telecommunications & Internet Access	\$2,741,634.00	Local: \$1,741,634; E-Rate: \$1,000,000
Materials & Supplies	\$177,296.00	Local: \$166,442; Title II D: \$10,854
Equipment	\$11,867,069.00	Local: \$349,069; Title II D: \$18,000; E-Rate: \$1,000,000; Bond: \$10,500,000
Maintenance	\$3,656,874.00	Local: \$3,656,874
Miscellaneous Expenses	\$6,604,751.00	Local: \$5,347,501; Title II D: \$27,250; State Allot: \$1,230,000
<b>Total</b>	<b>\$27,497,418.00</b>	

<b>Budget year 2009</b>		
<b>Budget item</b>	<b>Cost</b>	<b>Funding Sources with amount per source</b>
Staff Development	\$2,449,795.00	Local: \$1,172,282; Title II D: \$47,513; State Allot: \$1,230,000
Telecommunications & Internet Access	\$2,741,634.00	Local: \$1,741,634; E-Rate: \$1,000,000
Materials & Supplies	\$177,296.00	Local: \$166,442; Title II D: \$10,854
Equipment	\$11,867,069.00	Local: \$349,069; Title II D: \$18,000; E-Rate: \$1,000,000; Bond: \$10,500,000
Maintenance	\$3,656,874.00	Local: \$3,656,874
Miscellaneous Expenses	\$6,604,751.00	Local: \$5,347,501; Title II D: \$27,250; State Allot: \$1,230,000
<b>Total</b>	<b>\$27,497,419.00</b>	

<b>Budget year 2010</b>		
<b>Budget item</b>	<b>Cost</b>	<b>Funding Sources with amount per source</b>
Staff Development	\$2,449,795.00	Local: \$1,172,282; Title II D: \$47,513; State Allot: \$1,230,000
Telecommunications & Internet Access	\$2,741,634.00	Local: \$1,741,634; E-Rate: \$1,000,000
Materials & Supplies	\$177,296.00	Local: \$166,442;

		Title II D: \$10,854
Equipment	\$11,867,069.00	Local: \$349,069; Title II D: \$18,000; E-Rate: \$1,000,000; Bond: \$10,500,000
Maintenance	\$3,656,874.00	Local: \$3,656,874
Miscellaneous Expenses	\$6,604,751.00	Local: \$5,347,501; Title II D: \$27,250; State Allot: \$1,230,000
Total	\$27,497,419.00	

# Evaluation

## **Evaluation Process:**

The NISD Technology Plan for 2008-2011 will be monitored and evaluated as a part of the District Strategic Improvement Planning Process. This evaluation process will include the following:

- a. on-going monitoring of progress for each goal and objective
- b. preparation of detailed quarterly progress reports
- c. quarterly review of progress by a cross-representative leadership team (including district leaders from Technology Services, Curriculum and Instruction, Administration, Business, Facilities, Human Resources, Communications, and School Business Community Partnerships.)
- d. quarterly progress reports provided to the Board of Trustees
- e. posting of Technology Plan goals, objectives, projects, activities, schedules and timelines, and quarterly progress updates on the NISD Technology Services website.
- f. review by the Northside ISD Board of Trustees

In addition, an annual review of many technology projects are conducted by the Citizens' Bond Advisory Committee.

## **Evaluation Method:**

A variety of methods and tools will be utilized to monitor and evaluate progress in implementing the NISD 2008-2011 Technology Plan including but not limited to the following:

- a. data collection, review and analysis (student performance, teacher performance, staff performance and productivity, end-user needs and district requirements)
- b. document review (published lesson plans, class schedules, student and staff portfolios, student and staff products, budgets, acquisition records, cost benefit analysis summaries, project implementation plans and reports, customer/end-user feedback)
- c. formal and informal interviews and observations
- d. online surveys (technology usage, system usage, end-user feedback and needs)
- e. staff development records (calendars, attendance data, participant feedback and level of implementation records and reports)

The Texas STaR Chart results for each campus and all teachers will be used to assist in assessing progress made toward meeting the Long Range Plan for Technology.

# Appendix

**Attachment item A:**

Technology Services Website

- Web site: <http://www.nisd.net/technology>

**Attachment item B:**

District-wide Campus Technology Deployment Standards

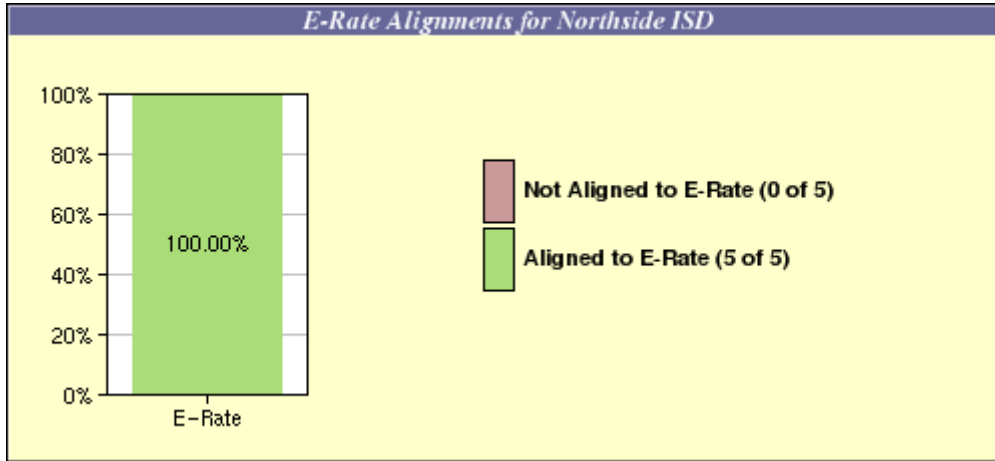
- PDF file:  [http://www.nisd.net/cmptecww/deploy/bond\\_standards.pdf](http://www.nisd.net/cmptecww/deploy/bond_standards.pdf)

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Northside 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.

# E-Rate Alignment Report for Northside ISD

Your technology plan matched 5 of 5 E-Rate correlates.



Below is a list of E-Rate statements to which you may have aligned your Technology Plan.

Correlate ID	E-Rate Correlate Statement
ER01	<p><b>The plan must establish clear goals and a realistic strategy for using telecommunications and information technology to improve education or library services.</b></p> <ul style="list-style-type: none"> <li>● Objective 1.1: Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12. <ul style="list-style-type: none"> <li>○ Strategy 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li> <li>○ Strategy 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.</li> <li>○ Strategy 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.</li> </ul> </li> <li>● Objective 1.2: Provide instructional and technical support for core and enrichment content areas and instructional initiatives to support student success and achievement. <ul style="list-style-type: none"> <li>○ Strategy 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.</li> <li>○ Strategy 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.</li> <li>○ Strategy 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.</li> <li>○ Strategy 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.</li> <li>○ Strategy 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.</li> </ul> </li> <li>● Objective 1.3: Research and implement strategies for providing additional access for students to instructional technologies. <ul style="list-style-type: none"> <li>○ Strategy 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.</li> </ul> </li> </ul>

- Strategy 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- Strategy 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- Objective 2.2: Provide online technology-related training and professional development course offerings, online training resources, and online assessment opportunities that align with the NISD Technology Core Competencies.
  - Strategy 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
  - Strategy 2.2.2: Expand the use of the District's Webinar (Web-based seminar) solution for online professional development, information dissemination and communication.
- Objective 3.1: Strategically administer technology budgets and processes to improve technology service and support throughout the District.
  - Strategy 3.1.1: Manage special revenue budget processes and expenditures to effectively use technology to meet instructional and operational needs throughout the District. (e.g., E-rate, Title II Part D, Technology Bond Program, State Technology Allotment, grants and partnerships)
  - Strategy 3.1.2: Collaborate with the Purchasing Department and vendors to aggressively seek competitive pricing on all technology hardware, software, and systems.
  - Strategy 3.1.3: Utilize an integrated project management and service delivery approach to optimize human resources, increase efficiency, reduce costs, and better address end-user needs.
- Objective 4.1: Continually refine technology acquisitions practices and procedures to sustain and support technology requirements across the District.
  - Strategy 4.1.1: Develop and implement a new customer-driven process, including an online system, for the evaluation, acquisition, and installation of new hardware and software.
  - Strategy 4.1.2: Align budget submissions (Bond, M&O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.
  - Strategy 4.1.3: Conduct cost/benefit analyses to guide strategic decisions regarding future purchases of technology solutions.
- Objective 4.2: Effectively respond to incidents and disasters involving technology components.
  - Strategy 4.2.1: Evaluate incident response data (e.g., AUP violations, security threats, spam, viruses) and refine processes, procedures, and technical solutions to decrease the number of occurrences.
  - Strategy 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- Objective 5.1: Utilize technology systems to foster a safe and secure school environment.
  - Strategy 5.1.1: Collaborate with other departments to implement the Integrated Security Management System, which includes video surveillance, alarm monitoring, access control, and ID badging, for 15 middle schools, three special schools, and selected central office facilities.
  - Strategy 5.1.2: Implement and support a new Internet filter (8e6).
  - Strategy 5.1.3: Explore the possibility of implementing a District-wide voice/messaging callout system.
  - Strategy 5.1.4: Explore the possibility of implementing a District-wide campus visitor identification system.
  - Strategy 5.1.5: Explore the possibility of implementing a District-wide bus/student/district vehicle transportation tracking system.
- Objective 5.2: Acquire, develop, and implement targeted information management systems to support administration and operations.
  - Strategy 5.2.1: Acquire and implement a district Data Warehouse.
  - Strategy 5.2.2: Acquire and implement a new Business/HR Information System.
  - Strategy 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and

current year discipline data.

- Strategy 5.2.4: Begin pre-acquisition planning for a new Student Information System.
- Strategy 5.2.5: Begin pre-acquisition planning for a Image/Document/Content Management System.
- Objective 5.3: Continuously review, design, and implement infrastructure and network enhancements (security, management, redundancy) to meet instructional and operational needs (voice, video, and data).
  - Strategy 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
  - Strategy 5.3.2: Continue to transition all campuses and end-users from a Novell network environment to a Microsoft Active Directory environment.
  - Strategy 5.3.3: Acquire and implement software packaging and distribution tools to facilitate software installs, adds, moves, and changes in order to better meet customers' needs.
  - Strategy 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.
  - Strategy 5.3.5: Acquire and implement a password synchronization tool to provide the capability for users to maintain a single password that is subject to a single security policy, and changes on a single schedule across multiple systems, where possible.
  - Strategy 5.3.6: Purchase and implement voice systems hardware replacement (12 servers and switching equipment) to support additional capacity for new schools and lifecycle replacement.
  - Strategy 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
  - Strategy 5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.
  - Strategy 5.3.9: Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.
  - Strategy 5.3.10: Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.

ER02

**The plan must have a professional development strategy to ensure that staff know how to use these new technologies to improve education or library services.**

- Objective 1.1: Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12.
  - Strategy 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
  - Strategy 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.
  - Strategy 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- Objective 2.1: Provide face-to-face technology-related training and professional development for employees that align with the NISD Technology Core Competencies.
  - Strategy 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.
  - Strategy 2.1.2: Continue the Q.U.A.D. (Quality, Usable, Accurate Data) initiative to train personnel District-wide on the use of various information management systems.
  - Strategy 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.

- Objective 2.2: Provide online technology-related training and professional development course offerings, online training resources, and online assessment opportunities that align with the NISD Technology Core Competencies.
  - Strategy 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
  - Strategy 2.2.2: Expand the use of the District's Webinar (Web-based seminar) solution for online professional development, information dissemination and communication.
- Objective 3.2: Continue to foster a work environment that attracts and inspires excellence in employees so that Technology Services is successful in its mission and employees are more productive and satisfied.
  - Strategy 3.2.1: Provide ongoing training opportunities for technology staff, including courseware from Atomic Learning and the Dell Learner Management System.
  - Strategy 3.2.2: Continue the Technology Services' Quarterly Staff Development and Employee Recognition Program as a means of increasing motivation, collegiality, collaboration, communication, and morale in the workplace.

ER03

**The plan must include an assessment of the telecommunication services, hardware, software, and other services that will be needed to improve education or library services.**

**NEEDS ASSESSMENT INFORMATION**

Assessment Process	<p>District-wide Technology Review and 10-Year Technology Master Plan The Northside Independent School District retained Elert &amp; Associates in July 2001 to assist the District in the review of its technology resources and uses, and to help plan for the future uses of technology at Northside ISD. In March 2002, Elert &amp; Associates published the Northside ISD Technology Master Plan 2002-2012: Implementing Excellence. The plan, developed in collaboration with more than 36 Northside ISD staff members, delineated recommendations in six categories: 1. Organizational Structure and Communication 2. Integrated Information Systems 3. Infrastructure and Access 4. Staffing and Support 5. Staff Development 6. Technologies for Instructional Programs Technology Services provided status reports to the Superintendent and Board in July, 2004 and January, 2007 regarding the implementation of the Technology Master Plan. These reports provided necessary feedback to allow technology planning and implementation processes to adapt to instructional, administrative, operational and technological changes. The status reports enabled Technology Services to continue to focus on important technology initiatives to advance the effective use of technology throughout the District. The status reports afforded new opportunities for discussion and thinking among staff and other stakeholders to ensure that the Technology Services Division is successful in supporting the mission, strategies, and beliefs of the District. In the nearly six years since the development and conveyance of the Technology Master Plan, most of the recommendations have been successfully completed, a few are in various stages of planning and implementation and a few have purposefully not been undertaken for a variety of reasons (e.g. prohibitive costs, changes in technology, unachievable due to workload, other District priorities). Although the Technology Master Plan 2002-2012 was an important part of the planning process, district technology initiatives are now often guided by newer and more relevant planning documents. These include the NISD District Improvement Plan 2003-2008 and DIP Yearly Activities across all eight priority areas, the NISD 2005-2008 Technology Plan, and the Texas Long-Range Plan for Technology 2006-2020. In January, 2008, the District will begin the development of the NISD District Improvement Plan 2008-2013. This plan will also include strategic planning for technology. Divisional Assessment and Planning The Technology Services Leadership Team meets weekly to discuss progress towards written goals and objectives, as established by the District Strategic Improvement Plan and the District Technology Plan. Frequent team and committee meetings ensure the periodic review of contracts, systems, programs, and funding to ensure the efficient and effective uses of current and emerging technology. Self-assessment, committee-assessment, and professional, contracted reviews are all utilized for on-going assessment and planning. Campus STaR Charts The Campus Texas School Technology and Readiness (STaR) Chart from The Texas Education Agency (TEA) is utilized each year as a tool for self-assessment and planning of effective technology integration across the curriculum. Ninety seven campuses successfully completed the STaR Chart. This past school year, over 5,500 Northside ISD teachers completed the Teacher STaR Chart. Campuses and the District will use the STaR Chart data to help determine funding priorities, provide information for technology planning, and measure the impact of state and local efforts to improve student learning through the use of technology. The Northside ISD Board of Trustees, including its Technology Committee, also reviews needs and provides strategic input and approval for all major technology initiatives in the District.</p>
Existing Conditions	<p>All Northside ISD sites (schools and central office facilities) are connected to the District-wide area network (WAN). The current switched Ethernet WAN architecture utilizes a star topology with all locations connected via AT&amp;T GigaMan link from the NISD central office. The telecommunications closets at each campus are interconnected with fiber optic cabling with connectivity of 100MB and/or 1000MB, utilizing Cisco layer 2 and layer 3 switches. All station cabling as a minimum is category 5e that is certified to transmit at 155 MB and higher. The District has a 500MB connection to the Internet. The District launched a successful year-long project to implement a new telephone system District-wide using Voice over IP (VoIP) in January 2003. The VoIP project enabled the District to put telephones in every classroom (an additional 4,000 phones), using the network already in the buildings to accommodate both voice and data. A wide variety of services are provided, including voicemail, conference calling, directory</p>

information, auto attendant, and more. Northside ISD will soon become the largest school district in the state to go completely wireless, giving students, teachers, and staff access to the Internet anywhere and any time at all campuses. Internet coverage and NISD network access will be available throughout all campuses, including classrooms, libraries, cafeterias, gymnasiums, and outdoor common areas to support a wide variety of instructional and administrative applications. The installation will be complete by the end of 2008. The district's first wireless one-to-one computing environment was implemented in August 2006 at Business Careers High School (BCHS). This initiative provided a wireless laptop computer to all BCHS students and staff and offers them significantly increased access to a wide range of software, electronic documents, the Internet, and other digital resources for superior teaching and learning. The wireless one-to-one computing initiative at BCHS focuses on five goals: 1. Improving student academic achievement through appropriate use of technology 2. Increasing the marketability and academic competitiveness of BCHS students by preparing them more effectively for today's technology-driven workplaces and universities 3. Increasing equity of access to technology and digital resources by BCHS students, thereby reducing the digital divide 4. Improving the quality of student-centered, differentiated instruction at BCHS 5. Utilizing technology to assist BCHS in becoming the premier business magnet school in the nation NISD's popular Parent Connection (<http://www.nisd.net/parentconnection>) provides information for parents. Parents of students in grades one through twelve have real-time online access to: \*\* their child's daily grades and attendance records, directly from teachers' gradebooks \*\* their child's longitudinal enrollment and academic data, directly from the District Curriculum Management System (school enrollment, total days absent, course enrollment and teachers, course credits and cycle grades, TAKS and other standardized assessment results) \*\* important news and announcements especially for parents \*\* future plans are to add online payments (cafeteria and other), as well as current year discipline information. A modular Integrated Security Management System (ISMS) operates over the Northside ISD Wide Area Network and provides digital video surveillance, access control, alarm monitoring, and badging identification. The system was implemented at all high schools during the 2005-06 school year. All middle schools will be completed by fall 2008. The purchase of an ISMS was identified as a high-priority need to support the District Strategic Improvement Plan goals for Safe and Secure Schools, Technology, and Facilities. Technology Services began providing secure network file storage for students at all secondary schools in August 2006. The solution includes an easy-to-use front end web interface to allow students to store and retrieve their data from anywhere in the District (i.e. library, computer lab, classroom, etc.) and from off-campus where Internet access is available. Students are required to have a User ID and Password for the system. A new district-wide Elementary Gradebook was officially launched on August 21, 2006. All secondary schools began using this gradebook in August 2007. The gradebook is Web-based, so it may also be used from home if Internet access is available. Besides recording grades and attendance, educators may also view important information such as parent contacts, special programs, and TAKS mastery that is automatically included in the gradebook. Teachers may also record information such as textbook numbers, field trip permission, and tutoring groups in the gradebook. Overall, this new tool is overwhelmingly popular and its implementation has been very smooth. The District has implemented UnitedStreaming, a digital video-on-demand product from Discovery Education. This research-based instructional resource includes over 5,000 full length educational videos, 50,000 video content clips, 28,000 images, and a variety of teacher materials. All media and materials are aligned to TEKS, updated daily, and delivered to the computer desktop (video may be downloaded or "streamed" live). Not only can this content be used by all NISD educators, but it can also be used by students in the creation of their own digital media connected to their learning. Professional development is ongoing for all teachers, campus technologists, librarians, and administrators.

**Needs** A \$693 million bond was passed by the voters on May 12, 2007. All elements of the Technology and Security portion of this bond program were identified as needs and will be implemented over the next four years: I. Campus-wide Technology Lifecycle Replacements (35 campuses) II. District-wide Technology Infrastructure A. Voice systems hardware replacement B. Upgrade WAN C. District Data Center servers D. eLearning servers and storage E. Instructional and operational servers F. Cabling, wiring, MDF/IDF equipment III. School Security for Middle Schools (21 campuses) IV. Mounted Digital Projectors in Classrooms (almost 5,500) In addition, funding has been allocated for these previously identified needs, which will be implemented over the next three years: I. A new Business/HR Management System II. A new Student Information System III. A District Data Warehouse Campus STaR Chart Data The goals and strategies included in this three-year District Technology Plan will enable us to move along the target technology continuum as identified by the Texas Education Association. The District Summary of the Campus STaR Chart data for 2007-08 indicates the following self-assessment results: 1. Teaching and Learning, Developing (High End) 2. Educator Preparation, Developing (High End) 3. Administration and Support, Advanced Tech (Low End) 4. Infrastructure for Technology, Advanced Tech (Low End)

ER04

**The plan must provide for a sufficient budget to acquire and support the non-discounted elements of the plan: the hardware, software, professional development, and other services that will be needed to implement the strategy.**

**BUDGET INFORMATION**

Total amount of Title II funds: \$145517.00

Method of application for formula funds: Local Application

Budget Detail for 2008 (Year 1)		
Budget Item	Cost	Funding Sources with %

Staff Development	\$2449794.00	Local: \$1,172,281; Title II D: \$47,513; State Allot: \$1,230,000
Telecommunications and Internet Access	\$2741634.00	Local: \$1,741,634; E-Rate: \$1,000,000
Materials and Supplies	\$177296.00	Local: \$166,442; Title II D: \$10,854
Equipment	\$11867069.00	Local: \$349,069; Title II D: \$18,000; E-Rate: \$1,000,000; Bond: \$10,500,000
Maintenance	\$3656874.00	Local: \$3,656,874
Miscellaneous Expenses	\$6604751.00	Local: \$5,347,501; Title II D: \$27,250; State Allot: \$1,230,000
Total	\$27497418.00	

<b>Budget Detail for 2009 (Year 2)</b>		
<b>Budget Item</b>	<b>Cost</b>	<b>Funding Sources with %</b>
Staff Development	\$2449795.00	Local: \$1,172,282; Title II D: \$47,513; State Allot: \$1,230,000
Telecommunications and Internet Access	\$2741634.00	Local: \$1,741,634; E-Rate: \$1,000,000
Materials and Supplies	\$177296.00	Local: \$166,442; Title II D: \$10,854
Equipment	\$11867069.00	Local: \$349,069; Title II D: \$18,000; E-Rate: \$1,000,000; Bond: \$10,500,000
Maintenance	\$3656874.00	Local: \$3,656,874
Miscellaneous Expenses	\$6604751.00	Local: \$5,347,501; Title II D: \$27,250; State Allot: \$1,230,000
Total	\$27497419.00	

<b>Budget Detail for 2010 (Year 3)</b>		
<b>Budget Item</b>	<b>Cost</b>	<b>Funding Sources with %</b>
Staff Development	\$2449795.00	Local: \$1,172,282; Title II D: \$47,513; State Allot: \$1,230,000
Telecommunications and Internet Access	\$2741634.00	Local: \$1,741,634; E-Rate: \$1,000,000
Materials and Supplies	\$177296.00	Local: \$166,442; Title II D: \$10,854
Equipment	\$11867069.00	Local: \$349,069; Title II D: \$18,000; E-Rate: \$1,000,000; Bond: \$10,500,000
Maintenance	\$3656874.00	Local: \$3,656,874
Miscellaneous Expenses	\$6604751.00	Local: \$5,347,501; Title II D: \$27,250; State Allot: \$1,230,000
Total	\$27497419.00	

ER05

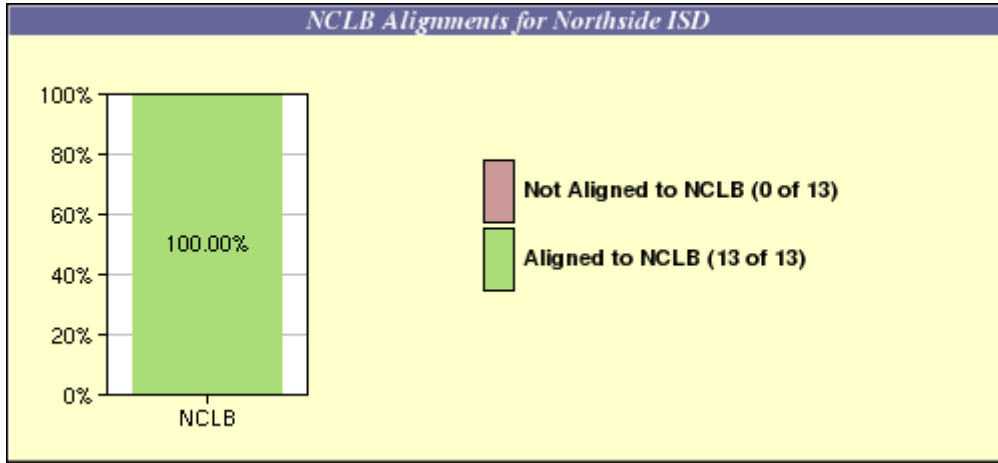
The plan must include an evaluation process that enables the school or library to monitor progress toward the specified goals and make mid-course corrections in response to new developments and opportunities as they arise.

<b>EVALUATION INFORMATION</b>	
Evaluation Process	The NISD Technology Plan for 2008-2011 will be monitored and evaluated as a part of the District Strategic Improvement Planning Process. This evaluation process will include the following: a. on-going monitoring of progress for each goal and objective b. preparation of detailed quarterly progress reports c. quarterly review of progress by a cross-representative leadership team (including district leaders from Technology Services, Curriculum and Instruction, Administration, Business, Facilities, Human Resources, Communications, and School Business Community Partnerships.) d. quarterly progress reports provided to the Board of Trustees e. posting of Technology Plan goals, objectives, projects, activities, schedules and timelines, and quarterly progress updates on the NISD Technology Services website. f. review by the Northside ISD Board of Trustees In addition, an annual review of many technology projects are conducted by the Citizens' Bond Advisory Committee.
Evaluation Method	A variety of methods and tools will be utilized to monitor and evaluate progress in implementing the NISD 2008-2011 Technology Plan including but not limited to the following: a. data collection, review and analysis (student performance, teacher performance, staff performance and productivity, end-user needs and district requirements) b. document review (published lesson plans, class schedules, student and staff portfolios, student and staff products, budgets, acquisition records, cost benefit analysis summaries, project implementation plans and reports, customer/end-user feedback) c. formal and informal interviews and observations d. online surveys (technology usage, system usage, end-user feedback and needs) e.

staff development records (calendars, attendance data, participant feedback and level of implementation records and reports) The Texas STaR Chart results for each campus and all teachers will be used to assist in assessing progress made toward meeting the Long Range Plan for Technology.

# No Child Left Behind (NCLB) Alignment Report for Northside ISD

Your technology plan matched 13 of 13 NCLB correlates.



Below is a list of No Child Left Behind (NCLB) statements to which you may have aligned your Technology Plan.

Correlate ID	NCLB Correlate Statement
1	<p><b>Strategies for improving academic achievement and teacher effectiveness</b></p> <p>To improve:</p> <ul style="list-style-type: none"> <li>the academic achievement, including technology literacy, of all students.</li> <li>the capacity of all teachers to integrate technology effectively into curriculum and instruction</li> </ul> <ul style="list-style-type: none"> <li><b>Objective 1.1: Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12.</b> <ul style="list-style-type: none"> <li>Strategy 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li> <li>Strategy 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.</li> <li>Strategy 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.</li> </ul> </li> <li><b>Objective 1.2: Provide instructional and technical support for core and enrichment content areas and instructional initiatives to support student success and achievement.</b> <ul style="list-style-type: none"> <li>Strategy 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.</li> <li>Strategy 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.</li> <li>Strategy 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.</li> <li>Strategy 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.</li> <li>Strategy 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.</li> </ul> </li> <li><b>Objective 1.3: Research and implement strategies for providing additional access for students to instructional technologies.</b> <ul style="list-style-type: none"> <li>Strategy 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-</li> </ul> </li> </ul>

based applications.

- Strategy 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- Strategy 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- Objective 2.1: Provide face-to-face technology-related training and professional development for employees that align with the NISD Technology Core Competencies.
  - Strategy 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.
  - Strategy 2.1.2: Continue the Q.U.A.D. (Quality, Usable, Accurate Data) initiative to train personnel District-wide on the use of various information management systems.
  - Strategy 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.
- Objective 2.2: Provide online technology-related training and professional development course offerings, online training resources, and online assessment opportunities that align with the NISD Technology Core Competencies.
  - Strategy 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
  - Strategy 2.2.2: Expand the use of the District's Webinar (Web-based seminar) solution for online professional development, information dissemination and communication.

2

### Goals for using advanced technology

- aligned with challenging State academic content and student academic achievement standards
- to improve student academic achievement
- Objective 1.1: Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12.
  - Strategy 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
  - Strategy 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.
  - Strategy 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- Objective 1.2: Provide instructional and technical support for core and enrichment content areas and instructional initiatives to support student success and achievement.
  - Strategy 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.
  - Strategy 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
  - Strategy 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
  - Strategy 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
  - Strategy 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.

- Objective 1.3: Research and implement strategies for providing additional access for students to instructional technologies.
  - Strategy 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
  - Strategy 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
  - Strategy 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- Objective 2.1: Provide face-to-face technology-related training and professional development for employees that align with the NISD Technology Core Competencies.
  - Strategy 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.
  - Strategy 2.1.2: Continue the Q.U.A.D. (Quality, Usable, Accurate Data) initiative to train personnel District-wide on the use of various information management systems.
  - Strategy 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.
- Objective 2.2: Provide online technology-related training and professional development course offerings, online training resources, and online assessment opportunities that align with the NISD Technology Core Competencies.
  - Strategy 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
  - Strategy 2.2.2: Expand the use of the District's Webinar (Web-based seminar) solution for online professional development, information dissemination and communication.
- Objective 4.1: Continually refine technology acquisitions practices and procedures to sustain and support technology requirements across the District.
  - Strategy 4.1.1: Develop and implement a new customer-driven process, including an online system, for the evaluation, acquisition, and installation of new hardware and software.
  - Strategy 4.1.2: Align budget submissions (Bond, M&O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.
  - Strategy 4.1.3: Conduct cost/benefit analyses to guide strategic decisions regarding future purchases of technology solutions.

3

**Steps to increase accessibility**

To ensure that:

- all students and teachers have increased access to technology
- Students in high-poverty and high-needs schools, or schools identified for improvement or corrective action, have access to technology
- teachers are prepared to integrate technology effectively into curricula and instruction
- Objective 1.2: Provide instructional and technical support for core and enrichment content areas and instructional initiatives to support student success and achievement.
  - Strategy 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.
  - Strategy 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
  - Strategy 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
  - Strategy 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.

- Strategy 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.
- Objective 1.3: Research and implement strategies for providing additional access for students to instructional technologies.
  - Strategy 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
  - Strategy 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
  - Strategy 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- Objective 2.2: Provide online technology-related training and professional development course offerings, online training resources, and online assessment opportunities that align with the NISD Technology Core Competencies.
  - Strategy 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
  - Strategy 2.2.2: Expand the use of the District's Webinar (Web-based seminar) solution for online professional development, information dissemination and communication.
- Objective 3.1: Strategically administer technology budgets and processes to improve technology service and support throughout the District.
  - Strategy 3.1.1: Manage special revenue budget processes and expenditures to effectively use technology to meet instructional and operational needs throughout the District. (e.g., E-rate, Title II Part D, Technology Bond Program, State Technology Allotment, grants and partnerships)
  - Strategy 3.1.2: Collaborate with the Purchasing Department and vendors to aggressively seek competitive pricing on all technology hardware, software, and systems.
  - Strategy 3.1.3: Utilize an integrated project management and service delivery approach to optimize human resources, increase efficiency, reduce costs, and better address end-user needs.
- Objective 4.1: Continually refine technology acquisitions practices and procedures to sustain and support technology requirements across the District.
  - Strategy 4.1.1: Develop and implement a new customer-driven process, including an online system, for the evaluation, acquisition, and installation of new hardware and software.
  - Strategy 4.1.2: Align budget submissions (Bond, M&O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.
  - Strategy 4.1.3: Conduct cost/benefit analyses to guide strategic decisions regarding future purchases of technology solutions.
- Objective 4.2: Effectively respond to incidents and disasters involving technology components.
  - Strategy 4.2.1: Evaluate incident response data (e.g., AUP violations, security threats, spam, viruses) and refine processes, procedures, and technical solutions to decrease the number of occurrences.
  - Strategy 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- Objective 5.2: Acquire, develop, and implement targeted information management systems to support administration and operations.
  - Strategy 5.2.1: Acquire and implement a district Data Warehouse.
  - Strategy 5.2.2: Acquire and implement a new Business/HR Information System.
  - Strategy 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.
  - Strategy 5.2.4: Begin pre-acquisition planning for a new Student Information System.
  - Strategy 5.2.5: Begin pre-acquisition planning for a Image/Document/Content Management System.

- Objective 5.3: Continuously review, design, and implement infrastructure and network enhancements (security, management, redundancy) to meet instructional and operational needs (voice, video, and data).
  - Strategy 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
  - Strategy 5.3.2: Continue to transition all campuses and end-users from a Novell network environment to a Microsoft Active Directory environment.
  - Strategy 5.3.3: Acquire and implement software packaging and distribution tools to facilitate software installs, adds, moves, and changes in order to better meet customers' needs.
  - Strategy 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.
  - Strategy 5.3.5: Acquire and implement a password synchronization tool to provide the capability for users to maintain a single password that is subject to a single security policy, and changes on a single schedule across multiple systems, where possible.
  - Strategy 5.3.6: Purchase and implement voice systems hardware replacement (12 servers and switching equipment) to support additional capacity for new schools and lifecycle replacement.
  - Strategy 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
  - Strategy 5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.
  - Strategy 5.3.9: Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.
  - Strategy 5.3.10: Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.

4a

**Promotion of curricula and teaching strategies that integrate technology**

- Will identify and promote curricula and teaching strategies that integrate technology effectively into curricula and instruction, based on a review of relevant research and leading to improvements in student academic achievement
- Objective 1.1: Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12.
  - Strategy 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
  - Strategy 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.
  - Strategy 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- Objective 1.2: Provide instructional and technical support for core and enrichment content areas and instructional initiatives to support student success and achievement.
  - Strategy 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.
  - Strategy 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
  - Strategy 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
  - Strategy 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
  - Strategy 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System

for designing and delivering data-driven instruction.

- Objective 2.1: Provide face-to-face technology-related training and professional development for employees that align with the NISD Technology Core Competencies.
  - Strategy 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.
  - Strategy 2.1.2: Continue the Q.U.A.D. (Quality, Usable, Accurate Data) initiative to train personnel District-wide on the use of various information management systems.
  - Strategy 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.
- Objective 2.2: Provide online technology-related training and professional development course offerings, online training resources, and online assessment opportunities that align with the NISD Technology Core Competencies.
  - Strategy 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
  - Strategy 2.2.2: Expand the use of the District's Webinar (Web-based seminar) solution for online professional development, information dissemination and communication.

4b

**Professional development**

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
- including, if applicable, a list of the entities that will be partners with the district involved in providing the ongoing, sustained professional development
- Objective 1.1: Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12.
  - Strategy 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
  - Strategy 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.
  - Strategy 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- Objective 2.1: Provide face-to-face technology-related training and professional development for employees that align with the NISD Technology Core Competencies.
  - Strategy 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.
  - Strategy 2.1.2: Continue the Q.U.A.D. (Quality, Usable, Accurate Data) initiative to train personnel District-wide on the use of various information management systems.
  - Strategy 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.
- Objective 2.2: Provide online technology-related training and professional development course offerings, online training resources, and online assessment opportunities that align with the NISD Technology Core Competencies.
  - Strategy 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
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- Objective 3.2: Continue to foster a work environment that attracts and inspires excellence in employees so that Technology Services is successful in its mission and employees are more productive and satisfied.
  - Strategy 3.2.1: Provide ongoing training opportunities for technology staff, including courseware from Atomic Learning and the Dell Learner Management System.

- Strategy 3.2.2: Continue the Technology Services' Quarterly Staff Development and Employee Recognition Program as a means of increasing motivation, collegiality, collaboration, communication, and morale in the workplace.

5

**Technology type and costs**

- Description of type and costs of technology to be acquired with Ed Tech funds, including provisions for interoperability of components of such technologies
  - Objective 1.2: Provide instructional and technical support for core and enrichment content areas and instructional initiatives to support student success and achievement.
    - Strategy 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.
    - Strategy 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
    - Strategy 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
    - Strategy 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
    - Strategy 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.
  - Objective 1.3: Research and implement strategies for providing additional access for students to instructional technologies.
    - Strategy 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
    - Strategy 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
    - Strategy 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
  - Objective 3.1: Strategically administer technology budgets and processes to improve technology service and support throughout the District.
    - Strategy 3.1.1: Manage special revenue budget processes and expenditures to effectively use technology to meet instructional and operational needs throughout the District. (e.g., E-rate, Title II Part D, Technology Bond Program, State Technology Allotment, grants and partnerships)
    - Strategy 3.1.2: Collaborate with the Purchasing Department and vendors to aggressively seek competitive pricing on all technology hardware, software, and systems.
    - Strategy 3.1.3: Utilize an integrated project management and service delivery approach to optimize human resources, increase efficiency, reduce costs, and better address end-user needs.
  - Objective 4.1: Continually refine technology acquisitions practices and procedures to sustain and support technology requirements across the District.
    - Strategy 4.1.1: Develop and implement a new customer-driven process, including an online system, for the evaluation, acquisition, and installation of new hardware and software.
    - Strategy 4.1.2: Align budget submissions (Bond, M&O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.
    - Strategy 4.1.3: Conduct cost/benefit analyses to guide strategic decisions regarding future purchases of technology solutions.
  - Objective 4.2: Effectively respond to incidents and disasters involving technology components.
    - Strategy 4.2.1: Evaluate incident response data (e.g., AUP violations, security threats, spam, viruses) and refine processes, procedures, and technical solutions to decrease the number of occurrences.

- Strategy 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- Objective 5.1: Utilize technology systems to foster a safe and secure school environment.
  - Strategy 5.1.1: Collaborate with other departments to implement the Integrated Security Management System, which includes video surveillance, alarm monitoring, access control, and ID badging, for 15 middle schools, three special schools, and selected central office facilities.
  - Strategy 5.1.2: Implement and support a new Internet filter (8e6).
  - Strategy 5.1.3: Explore the possibility of implementing a District-wide voice/messaging callout system.
  - Strategy 5.1.4: Explore the possibility of implementing a District-wide campus visitor identification system.
  - Strategy 5.1.5: Explore the possibility of implementing a District-wide bus/student/district vehicle transportation tracking system.
- Objective 5.2: Acquire, develop, and implement targeted information management systems to support administration and operations.
  - Strategy 5.2.1: Acquire and implement a district Data Warehouse.
  - Strategy 5.2.2: Acquire and implement a new Business/HR Information System.
  - Strategy 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.
  - Strategy 5.2.4: Begin pre-acquisition planning for a new Student Information System.
  - Strategy 5.2.5: Begin pre-acquisition planning for a Image/Document/Content Management System.
- Objective 5.3: Continuously review, design, and implement infrastructure and network enhancements (security, management, redundancy) to meet instructional and operational needs (voice, video, and data).
  - Strategy 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
  - Strategy 5.3.2: Continue to transition all campuses and end-users from a Novell network environment to a Microsoft Active Directory environment.
  - Strategy 5.3.3: Acquire and implement software packaging and distribution tools to facilitate software installs, adds, moves, and changes in order to better meet customers' needs.
  - Strategy 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.
  - Strategy 5.3.5: Acquire and implement a password synchronization tool to provide the capability for users to maintain a single password that is subject to a single security policy, and changes on a single schedule across multiple systems, where possible.
  - Strategy 5.3.6: Purchase and implement voice systems hardware replacement (12 servers and switching equipment) to support additional capacity for new schools and lifecycle replacement.
  - Strategy 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
  - Strategy 5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.
  - Strategy 5.3.9: Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.
  - Strategy 5.3.10: Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.

#### **Coordination with other resources**

- District's plan for coordinating activities funded through the Ed Tech program with technology-related activities supported with funds from other Federal, State, and local sources

- Objective 1.1: Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12.
  - Strategy 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
  - Strategy 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.
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  - Strategy 3.1.3: Utilize an integrated project management and service delivery approach to optimize human resources, increase efficiency, reduce costs, and better address end-user needs.
- Objective 4.1: Continually refine technology acquisitions practices and procedures to sustain and support technology requirements across the District.

- Strategy 4.1.1: Develop and implement a new customer-driven process, including an online system, for the evaluation, acquisition, and installation of new hardware and software.
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  - Strategy 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
  - Strategy 5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.
  - Strategy 5.3.9: Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.

- Strategy 5.3.10: Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.

7 **Integration of technology with curricula and instruction**

How the applicant will:

- integrate technology (including software and electronically delivered learning materials) into curricula and instruction, and
  - utilize a timeline for this integration
- Objective 1.1: Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12.
    - Strategy 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
    - Strategy 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.
    - Strategy 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
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  - Objective 4.1: Continually refine technology acquisitions practices and procedures to sustain and support technology requirements across the District.
    - Strategy 4.1.1: Develop and implement a new customer-driven process, including an online system, for the evaluation, acquisition, and installation of new hardware and software.
    - Strategy 4.1.2: Align budget submissions (Bond, M&O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.
    - Strategy 4.1.3: Conduct cost/benefit analyses to guide strategic decisions regarding future purchases of technology solutions.

8 **Innovative delivery strategies**

Will encourage:

- the development and use of innovative strategies for the delivery of specialized or rigorous courses and curricula through the use of technology, including distance learning technologies, particularly in areas that would not otherwise have access to such courses or curricula due to geographical distances or insufficient resources
- Objective 1.1: Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12.
    - Strategy 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
    - Strategy 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.

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  - Strategy 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
  - Strategy 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
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  - Strategy 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
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- Objective 5.3: Continuously review, design, and implement infrastructure and network enhancements (security, management, redundancy) to meet instructional and operational needs (voice, video, and data).
  - Strategy 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
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- Strategy 5.3.10: Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.

9

**Parental involvement**

Will use technology effectively to:

- promote parental involvement
- increase communication with parents, including a description of how parents will be informed of the technology being applied in the child's education
- Objective 5.2: Acquire, develop, and implement targeted information management systems to support administration and operations.
  - Strategy 5.2.1: Acquire and implement a district Data Warehouse.
  - Strategy 5.2.2: Acquire and implement a new Business/HR Information System.
  - Strategy 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.
  - Strategy 5.2.4: Begin pre-acquisition planning for a new Student Information System.
  - Strategy 5.2.5: Begin pre-acquisition planning for a Image/Document/Content Management System.

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**Collaboration with adult literacy service providers**

- Description of how the program will be developed, where applicable, in collaboration with adult literacy service providers
- Objective 1.1: Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12.
  - Strategy 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
  - Strategy 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.
  - Strategy 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- Objective 3.2: Continue to foster a work environment that attracts and inspires excellence in employees so that Technology Services is successful in its mission and employees are more productive and satisfied.
  - Strategy 3.2.1: Provide ongoing training opportunities for technology staff, including courseware from Atomic Learning and the Dell Learner Management System.
  - Strategy 3.2.2: Continue the Technology Services' Quarterly Staff Development and Employee Recognition Program as a means of increasing motivation, collegiality, collaboration, communication, and morale in the workplace.

11

**Accountability measures**

Process and accountability measures that evaluate the extent to which activities are effective in:

- integrating technology into curricula and instruction
- increasing the ability of teachers to teach
- enabling students to reach challenging State academic content and student academic achievement standards
- Objective 1.1: Provide aligned curriculum, instruction, and assessment related to technology integration and technology literacy for all students, grades K-12.
  - Strategy 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.

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  - Strategy 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.

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**Supporting resources**

- Supporting resources (such as services, software, other electronically delivered learning materials, and print resources) that will be acquired to ensure successful and effective uses of technology
  - Objective 1.2: Provide instructional and technical support for core and enrichment content areas and instructional initiatives to support student success and achievement.
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    - Strategy 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
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    - Strategy 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.
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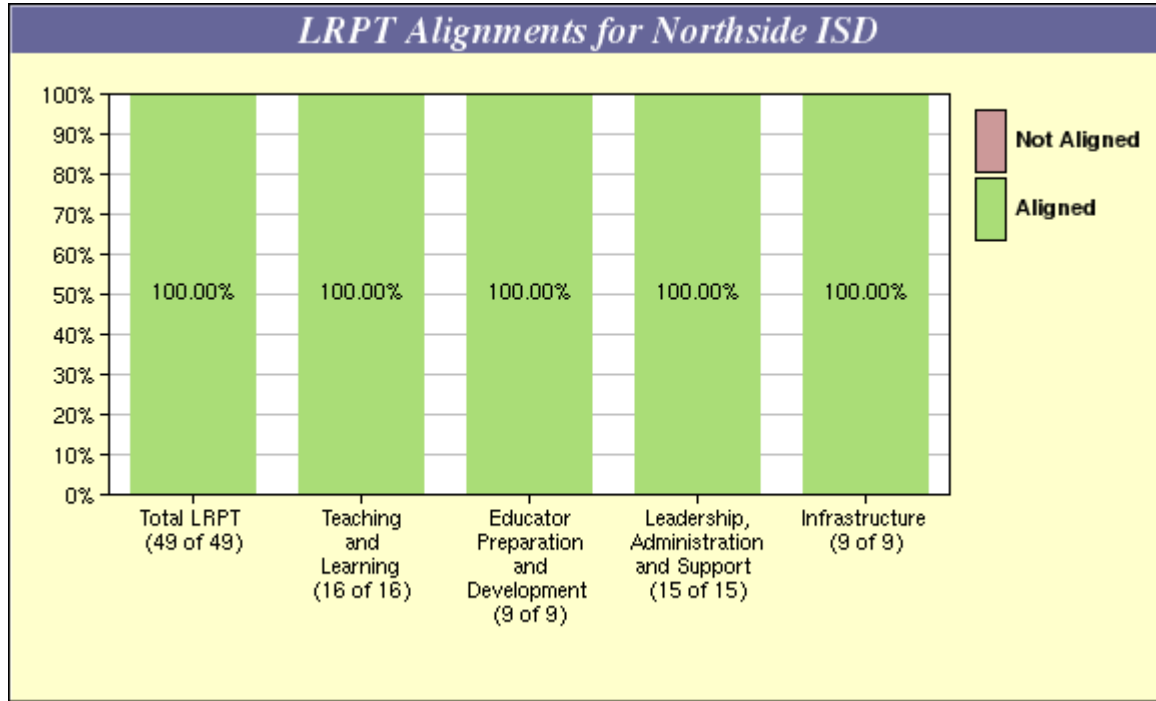
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- Objective 3.1: Strategically administer technology budgets and processes to improve technology service and support throughout the District.
  - Strategy 3.1.1: Manage special revenue budget processes and expenditures to effectively use technology to meet instructional and operational needs throughout the District. (e.g., E-rate, Title II Part D, Technology Bond Program, State Technology Allotment, grants and partnerships)
  - Strategy 3.1.2: Collaborate with the Purchasing Department and vendors to aggressively seek competitive pricing on all technology hardware, software, and systems.
  - Strategy 3.1.3: Utilize an integrated project management and service delivery approach to optimize human resources, increase efficiency, reduce costs, and better address end-user needs.
- Objective 3.2: Continue to foster a work environment that attracts and inspires excellence in employees so that Technology Services is successful in its mission and employees are more productive and satisfied.
  - Strategy 3.2.1: Provide ongoing training opportunities for technology staff, including courseware from Atomic Learning and the Dell Learner Management System.
  - Strategy 3.2.2: Continue the Technology Services' Quarterly Staff Development and Employee Recognition Program as a means of increasing motivation, collegiality, collaboration, communication, and morale in the workplace.
- Objective 4.1: Continually refine technology acquisitions practices and procedures to sustain and support technology requirements across the District.
  - Strategy 4.1.1: Develop and implement a new customer-driven process, including an online system, for the evaluation, acquisition, and installation of new hardware and software.
  - Strategy 4.1.2: Align budget submissions (Bond, M&O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.
  - Strategy 4.1.3: Conduct cost/benefit analyses to guide strategic decisions regarding future purchases of technology solutions.
- Objective 4.2: Effectively respond to incidents and disasters involving technology components.
  - Strategy 4.2.1: Evaluate incident response data (e.g., AUP violations, security threats, spam, viruses) and refine processes, procedures, and technical solutions to decrease the number of occurrences.
  - Strategy 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- Objective 5.1: Utilize technology systems to foster a safe and secure school environment.
  - Strategy 5.1.1: Collaborate with other departments to implement the Integrated Security Management System, which includes video surveillance, alarm monitoring, access control, and ID badging, for 15 middle schools, three special schools, and selected central office facilities.
  - Strategy 5.1.2: Implement and support a new Internet filter (8e6).
  - Strategy 5.1.3: Explore the possibility of implementing a District-wide voice/messaging callout system.
  - Strategy 5.1.4: Explore the possibility of implementing a District-wide campus visitor identification system.
  - Strategy 5.1.5: Explore the possibility of implementing a District-wide bus/student/district vehicle transportation tracking system.

- Objective 5.2: Acquire, develop, and implement targeted information management systems to support administration and operations.
  - Strategy 5.2.1: Acquire and implement a district Data Warehouse.
  - Strategy 5.2.2: Acquire and implement a new Business/HR Information System.
  - Strategy 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.
  - Strategy 5.2.4: Begin pre-acquisition planning for a new Student Information System.
  - Strategy 5.2.5: Begin pre-acquisition planning for a Image/Document/Content Management System.
- Objective 5.3: Continuously review, design, and implement infrastructure and network enhancements (security, management, redundancy) to meet instructional and operational needs (voice, video, and data).
  - Strategy 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
  - Strategy 5.3.2: Continue to transition all campuses and end-users from a Novell network environment to a Microsoft Active Directory environment.
  - Strategy 5.3.3: Acquire and implement software packaging and distribution tools to facilitate software installs, adds, moves, and changes in order to better meet customers' needs.
  - Strategy 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.
  - Strategy 5.3.5: Acquire and implement a password synchronization tool to provide the capability for users to maintain a single password that is subject to a single security policy, and changes on a single schedule across multiple systems, where possible.
  - Strategy 5.3.6: Purchase and implement voice systems hardware replacement (12 servers and switching equipment) to support additional capacity for new schools and lifecycle replacement.
  - Strategy 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
  - Strategy 5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.
  - Strategy 5.3.9: Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.
  - Strategy 5.3.10: Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.

# LRPT Alignment Report for Northside ISD

Strategies from your technology plan matched 49 of the 49 LEA-related LRPT correlates.



Below is a list of Long Range Plan for Technology (LRPT) statements. Strategies from your Technology Plan are listed beneath those LRPT statements with which they aligned.

<b><i>Educator Preparation and Development</i></b>	
Correlate ID	LRPT Statement
EP01	<p><b>Provide professional development for teaching and integrating Technology Applications into the foundation and enrichment TEKS through multiple delivery methods.</b></p> <ul style="list-style-type: none"> <li>1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li> <li>1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.</li> <li>1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.</li> <li>1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li> <li>2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.</li> <li>2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.</li> </ul>
EP02	<p><b>Provide professional development for Technology Applications courses as identified in Technology Applications Educator Standards VI - XI.</b></p> <ul style="list-style-type: none"> <li>1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li> </ul>

- 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.

EP03

**Provide training on the use of electronic tools and information to support sound, data-driven decision-making.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.
- 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.
- 2.1.2: Continue the Q.U.A.D. (Quality, Usable, Accurate Data) initiative to train personnel District-wide on the use of various information management systems.
- 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.
- 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
- 5.1.2: Implement and support a new Internet filter (8e6).

EP04

**Develop strategies for all educators, including campus administrators and librarians, to master the Technology Applications Educator Standards I — V as access to technology and professional development becomes available.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.
- 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.
- 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.

EP05

**Document progress of teachers towards mastery of Technology Applications Educator Standards I — V using the Texas STaR Chart.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.

	<ul style="list-style-type: none"> <li>● 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.</li> <li>● 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.</li> </ul>
EP06	<p><b>Encourage participation in statewide, technology professional development opportunities.</b></p> <ul style="list-style-type: none"> <li>● 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li> <li>● 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.</li> </ul>
EP07	<p><b>Encourage educator participation in the Master Technology Teacher program.</b></p> <ul style="list-style-type: none"> <li>● 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li> <li>● 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.</li> </ul>
EP08	<p><b>Utilize innovative strategies for the 24/7 delivery of ongoing professional development through the use of technology, including online and other distance learning and digital content services to meet the diverse and persona learning needs of all educators.</b></p> <ul style="list-style-type: none"> <li>● 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li> <li>● 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.</li> <li>● 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.</li> <li>● 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.</li> <li>● 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li> <li>● 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.</li> <li>● 2.2.2: Expand the use of the District's Webinar (Web-based seminar) solution for online professional development, information dissemination and communication.</li> <li>● 5.3.9: Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.</li> </ul>
EP09	<p><b>Provide instructional coaches and mentors to support classroom efforts in using technology to improve learning in core curriculum areas.</b></p> <ul style="list-style-type: none"> <li>● 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li> <li>● 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.</li> <li>● 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li> <li>● 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple</li> </ul>

locations around the District.

- 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.

## ***Infrastructure for Technology***

Correlate ID

LRPT Statement

101

**Design, install and maintain a technology and telecommunications infrastructure for communications and services that ensures equitable access.**

- 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.
- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
- 2.2.2: Expand the use of the District's Webinar (Web-based seminar) solution for online professional development, information dissemination and communication.
- 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- 5.1.1: Collaborate with other departments to implement the Integrated Security Management System, which includes video surveillance, alarm monitoring, access control, and ID badging, for 15 middle schools, three special schools, and selected central office facilities.
- 5.1.2: Implement and support a new Internet filter (8e6).
- 5.1.3: Explore the possibility of implementing a District-wide voice/messaging callout system.
- 5.1.4: Explore the possibility of implementing a District-wide campus visitor identification system.
- 5.1.5: Explore the possibility of implementing a District-wide bus/student/district vehicle transportation tracking system.
- 5.2.1: Acquire and implement a district Data Warehouse.
- 5.2.2: Acquire and implement a new Business/HR Information System.
- 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.
- 5.2.4: Begin pre-acquisition planning for a new Student Information System.
- 5.2.5: Begin pre-acquisition planning for a Image/Document/Content Management System.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
- 5.3.2: Continue to transition all campuses and end-users from a Novell network environment to a Microsoft Active

Directory environment.

- 5.3.3: Acquire and implement software packaging and distribution tools to facilitate software installs, adds, moves, and changes in order to better meet customers' needs.
- 5.3.6: Purchase and implement voice systems hardware replacement (12 servers and switching equipment) to support additional capacity for new schools and lifecycle replacement.
- 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
- 5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.
- 5.3.9: Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.
- 5.3.10: Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.

102

**Develop innovative funding and collaboration strategies with both public and private sectors to ensure all students have equitable and anytime, anywhere access to broadband communications.**

- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
- 5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.
- 5.3.10: Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.

103

**Build community support for anytime, anywhere Internet access through collaborative planning, education, public information and other means.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.
- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).

- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- 5.1.2: Implement and support a new Internet filter (8e6).
- 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
- 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
- 5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.

104

**Strive to achieve and maintain a personal computing device ratio of 1:1 for both students and professional educators.**

- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.

105

**Provide on-demand access to appropriately configured technology for all students and staff, including those with disabilities, in libraries, school offices, and other work areas.**

- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
- 5.1.2: Implement and support a new Internet filter (8e6).
- 5.2.2: Acquire and implement a new Business/HR Information System.

- 5.2.5: Begin pre-acquisition planning for a Image/Document/Content Management System.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
- 5.3.2: Continue to transition all campuses and end-users from a Novell network environment to a Microsoft Active Directory environment.
- 5.3.3: Acquire and implement software packaging and distribution tools to facilitate software installs, adds, moves, and changes in order to better meet customers' needs.
- 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.
- 5.3.6: Purchase and implement voice systems hardware replacement (12 servers and switching equipment) to support additional capacity for new schools and lifecycle replacement.
- 5.3.9: Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.

106

**Strive to participate in the high-speed, high-capacity statewide telecommunications network.**

- 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.
- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 5.1.4: Explore the possibility of implementing a District-wide campus visitor identification system.

107

**Maintain an obsolescence policy to ensure maximum efficiency and use of technology and infrastructure by all students and staff.**

- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
- 5.3.2: Continue to transition all campuses and end-users from a Novell network environment to a Microsoft Active Directory environment.
- 5.3.3: Acquire and implement software packaging and distribution tools to facilitate software installs, adds, moves, and changes in order to better meet customers' needs.
- 5.3.6: Purchase and implement voice systems hardware replacement (12 servers and switching equipment) to support additional capacity for new schools and lifecycle replacement.
- 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
- 5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.

108

**Provide and maintain an infrastructure for communications with parents and community members, including year-round access to school news, educational resources, data and personnel.**

- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 5.1.3: Explore the possibility of implementing a District-wide voice/messaging callout system.
- 5.1.4: Explore the possibility of implementing a District-wide campus visitor identification system.
- 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.
- 5.3.6: Purchase and implement voice systems hardware replacement (12 servers and switching equipment) to support additional capacity for new schools and lifecycle replacement.

109

**Provide access to digital instructional tools that meet interoperability and data accessibility standards for instruction.**

- 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.
- 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.
- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
- 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.
- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
- 5.2.1: Acquire and implement a district Data Warehouse.
- 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
- 5.3.2: Continue to transition all campuses and end-users from a Novell network environment to a Microsoft Active Directory environment.
- 5.3.3: Acquire and implement software packaging and distribution tools to facilitate software installs, adds, moves, and changes in order to better meet customers' needs.
- 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.

- 5.3.9: Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.

## **Leadership, Administration and Support**

Correlate ID

LRPT Statement

LAS01

### **Incorporate ongoing technology planning in classroom, library, campus, and district improvement plans.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
- 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.
- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 3.1.1: Manage special revenue budget processes and expenditures to effectively use technology to meet instructional and operational needs throughout the District. (e.g., E-rate, Title II Part D, Technology Bond Program, State Technology Allotment, grants and partnerships)
- 3.1.3: Utilize an integrated project management and service delivery approach to optimize human resources, increase efficiency, reduce costs, and better address end-user needs.
- 3.2.1: Provide ongoing training opportunities for technology staff, including courseware from Atomic Learning and the Dell Learner Management System.
- 3.2.2: Continue the Technology Services' Quarterly Staff Development and Employee Recognition Program as a means of increasing motivation, collegiality, collaboration, communication, and morale in the workplace.
- 4.1.2: Align budget submissions (Bond, M&O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.
- 4.1.3: Conduct cost/benefit analyses to guide strategic decisions regarding future purchases of technology solutions.
- 4.2.1: Evaluate incident response data (e.g., AUP violations, security threats, spam, viruses) and refine processes, procedures, and technical solutions to decrease the number of occurrences.
- 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- 5.1.1: Collaborate with other departments to implement the Integrated Security Management System, which includes video surveillance, alarm monitoring, access control, and ID badging, for 15 middle schools, three special schools, and selected central office facilities.
- 5.2.2: Acquire and implement a new Business/HR Information System.

- 5.2.4: Begin pre-acquisition planning for a new Student Information System.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
- 5.3.3: Acquire and implement software packaging and distribution tools to facilitate software installs, adds, moves, and changes in order to better meet customers' needs.
- 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.
- 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
- 5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.
- 5.3.10: Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.

LAS02

**Promote a comprehensive planning process to ensure technology plans include clear goals, realistic strategies, and critical components such as compliance with state and federal regulations, needs assessment, budget and evaluation. Identify budget and secure funding to support technology identified in classroom, library, campus, and district planning efforts.**

- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
- 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 2.1.2: Continue the Q.U.A.D. (Quality, Usable, Accurate Data) initiative to train personnel District-wide on the use of various information management systems.
- 3.1.1: Manage special revenue budget processes and expenditures to effectively use technology to meet instructional and operational needs throughout the District. (e.g., E-rate, Title II Part D, Technology Bond Program, State Technology Allotment, grants and partnerships)
- 3.1.2: Collaborate with the Purchasing Department and vendors to aggressively seek competitive pricing on all technology hardware, software, and systems.
- 3.1.3: Utilize an integrated project management and service delivery approach to optimize human resources, increase efficiency, reduce costs, and better address end-user needs.
- 3.2.1: Provide ongoing training opportunities for technology staff, including courseware from Atomic Learning and the Dell Learner Management System.
- 4.1.1: Develop and implement a new customer-driven process, including an online system, for the evaluation, acquisition, and installation of new hardware and software.
- 4.1.2: Align budget submissions (Bond, M&O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.
- 4.1.3: Conduct cost/benefit analyses to guide strategic decisions regarding future purchases of technology solutions.

- 4.2.1: Evaluate incident response data (e.g., AUP violations, security threats, spam, viruses) and refine processes, procedures, and technical solutions to decrease the number of occurrences.
- 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- 5.1.1: Collaborate with other departments to implement the Integrated Security Management System, which includes video surveillance, alarm monitoring, access control, and ID badging, for 15 middle schools, three special schools, and selected central office facilities.
- 5.1.2: Implement and support a new Internet filter (8e6).
- 5.1.4: Explore the possibility of implementing a District-wide campus visitor identification system.
- 5.1.5: Explore the possibility of implementing a District-wide bus/student/district vehicle transportation tracking system.
- 5.2.1: Acquire and implement a district Data Warehouse.
- 5.2.2: Acquire and implement a new Business/HR Information System.
- 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.
- 5.2.4: Begin pre-acquisition planning for a new Student Information System.
- 5.2.5: Begin pre-acquisition planning for a Image/Document/Content Management System.
- 5.3.2: Continue to transition all campuses and end-users from a Novell network environment to a Microsoft Active Directory environment.
- 5.3.5: Acquire and implement a password synchronization tool to provide the capability for users to maintain a single password that is subject to a single security policy, and changes on a single schedule across multiple systems, where possible.
- 5.3.6: Purchase and implement voice systems hardware replacement (12 servers and switching equipment) to support additional capacity for new schools and lifecycle replacement.
- 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
- 5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.
- 5.3.10: Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.

LAS03

**Include professional development on the integration of technology in all classroom, library, campus, and district improvement plans and measure their effectiveness using the Texas STAAR Chart.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.
- 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP,

Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.

- 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
- 3.2.1: Provide ongoing training opportunities for technology staff, including courseware from Atomic Learning and the Dell Learner Management System.
- 5.2.2: Acquire and implement a new Business/HR Information System.

LAS04

**Ensure a viable technology plan is written and approved prior to applying for the federal E-Rate discount program.**

- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 3.1.1: Manage special revenue budget processes and expenditures to effectively use technology to meet instructional and operational needs throughout the District. (e.g., E-rate, Title II Part D, Technology Bond Program, State Technology Allotment, grants and partnerships)
- 3.1.2: Collaborate with the Purchasing Department and vendors to aggressively seek competitive pricing on all technology hardware, software, and systems.
- 3.1.3: Utilize an integrated project management and service delivery approach to optimize human resources, increase efficiency, reduce costs, and better address end-user needs.
- 4.1.2: Align budget submissions (Bond, M&O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.
- 4.1.3: Conduct cost/benefit analyses to guide strategic decisions regarding future purchases of technology solutions.
- 4.2.1: Evaluate incident response data (e.g., AUP violations, security threats, spam, viruses) and refine processes, procedures, and technical solutions to decrease the number of occurrences.
- 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- 5.1.2: Implement and support a new Internet filter (8e6).
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
- 5.3.7: Upgrade WAN equipment (5 core switches) to support additional capacity for new schools and lifecycle replacement.
- 5.3.10: Implement cabling, wiring, and campus MDF/IDF equipment to support repurposing of computers and emerging needs.

LAS05

**Utilize the district technology plan to ensure technology resources promote student achievement in accordance with No Child Left Behind.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 3.1.1: Manage special revenue budget processes and expenditures to effectively use technology to meet instructional and operational needs throughout the District. (e.g., E-rate, Title II Part D, Technology Bond Program, State Technology

	<p>Allotment, grants and partnerships)</p> <ul style="list-style-type: none"> <li>● 3.1.2: Collaborate with the Purchasing Department and vendors to aggressively seek competitive pricing on all technology hardware, software, and systems.</li> <li>● 3.1.3: Utilize an integrated project management and service delivery approach to optimize human resources, increase efficiency, reduce costs, and better address end-user needs.</li> <li>● 4.1.2: Align budget submissions (Bond, M&amp;O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.</li> <li>● 4.1.3: Conduct cost/benefit analyses to guide strategic decisions regarding future purchases of technology solutions.</li> <li>● 5.1.2: Implement and support a new Internet filter (8e6).</li> </ul>
LAS06	<p><b>Allocate at least 30 percent of technology allotment budget for professional development.</b></p> <ul style="list-style-type: none"> <li>● 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li> <li>● 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.</li> <li>● 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.</li> <li>● 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.</li> </ul>
LAS07	<p><b>Include community input into the planning and support for the integration of technology into teaching and learning.</b></p> <ul style="list-style-type: none"> <li>● 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).</li> <li>● 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li> <li>● 3.1.1: Manage special revenue budget processes and expenditures to effectively use technology to meet instructional and operational needs throughout the District. (e.g., E-rate, Title II Part D, Technology Bond Program, State Technology Allotment, grants and partnerships)</li> <li>● 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.</li> </ul>
LAS08	<p><b>Coordinate the use of electronic data in district planning to support research-based decision-making focused on student success.</b></p> <ul style="list-style-type: none"> <li>● 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.</li> <li>● 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.</li> <li>● 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.</li> <li>● 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.</li> <li>● 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.</li> </ul>

- 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.
- 5.2.1: Acquire and implement a district Data Warehouse.
- 5.2.2: Acquire and implement a new Business/HR Information System.
- 5.2.4: Begin pre-acquisition planning for a new Student Information System.

LAS09

**Initiate and implement policies to expand parental and community access to school facilities, library resources, and non-secured data through technology.**

- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 5.1.4: Explore the possibility of implementing a District-wide campus visitor identification system.
- 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.

LAS10

**Provide instructional assistance for the effective integration of technology into teaching and learning in all school and district operations.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.
- 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.
- 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.

LAS11

**Provide parents secure electronic access to student information.**

- 5.2.3: Expand Parent Connection to include cafeteria data, online pre-payment for purchases, and current year discipline data.
- 5.2.4: Begin pre-acquisition planning for a new Student Information System.

LAS12	<p><b>Incorporate mastery of SBEC Technology Applications Educator Standards into local educator appraisal systems.</b></p> <ul style="list-style-type: none"> <li>1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li> <li>1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li> <li>2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.</li> </ul>
LAS13	<p><b>Participate in collaboration with representatives from PreK-12, higher education, parents, businesses and community to share resources and services.</b></p> <ul style="list-style-type: none"> <li>1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li> <li>1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).</li> <li>1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li> <li>3.1.1: Manage special revenue budget processes and expenditures to effectively use technology to meet instructional and operational needs throughout the District. (e.g., E-rate, Title II Part D, Technology Bond Program, State Technology Allotment, grants and partnerships)</li> </ul>
LAS14	<p><b>Create business continuity plans that ensure critical technology applications can be recovered in a timely manner including electronic student records, instructional materials, financial and personnel records, and communication systems such as email and web pages.</b></p> <ul style="list-style-type: none"> <li>4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.</li> <li>5.2.1: Acquire and implement a district Data Warehouse.</li> <li>5.2.2: Acquire and implement a new Business/HR Information System.</li> <li>5.2.5: Begin pre-acquisition planning for a Image/Document/Content Management System.</li> <li>5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.</li> <li>5.3.2: Continue to transition all campuses and end-users from a Novell network environment to a Microsoft Active Directory environment.</li> <li>5.3.5: Acquire and implement a password synchronization tool to provide the capability for users to maintain a single password that is subject to a single security policy, and changes on a single schedule across multiple systems, where possible.</li> <li>5.3.6: Purchase and implement voice systems hardware replacement (12 servers and switching equipment) to support additional capacity for new schools and lifecycle replacement.</li> <li>5.3.8: Implement new servers at the District Data Center to eliminate/consolidate campus servers.</li> </ul>
LAS15	<p><b>Budget for, offer, and support expanded curricular and instructional opportunities to students via online and other distance learning.</b></p> <ul style="list-style-type: none"> <li>1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.</li> <li>1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li> </ul>

## Teaching and Learning

Correlate ID	LRPT Statement
TL01	<p><b>Integrate the Technology Applications TEKS within the foundation curriculum at each grade level and provide specialized courses in Technology Applications.</b></p> <ul style="list-style-type: none"><li>1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li><li>1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.</li><li>1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.</li><li>1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li><li>2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.</li></ul>
TL02	<p><b>Offer and provide the Technology Applications high school courses to meet the curriculum and graduation requirements specified in 19 TAC Chapter 74.</b></p> <ul style="list-style-type: none"><li>1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li><li>1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.</li><li>1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li></ul>
TL03	<p><b>Use the Technology Applications adopted instructional materials at all grade levels.</b></p> <ul style="list-style-type: none"><li>1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li><li>1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.</li><li>1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li></ul>
TL04	<p><b>Use digital diagnostic tools for formative evaluation to monitor progress toward the mastery of instructional objectives.</b></p> <ul style="list-style-type: none"><li>1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.</li><li>1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.</li><li>1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.</li><li>1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.</li><li>1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li></ul>

- 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.

TL05

**Implement research-based strategies to improve the academic achievement, including technology literacy, of all students.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.
- 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.
- 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.

TL06

**Develop strategies to monitor and document progress of integration of technology into curricula and instruction and to monitor and report student mastery of the Technology Applications TEKS to TEA.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.1.2: Pilot an online solution, which may eventually expand District-wide, for the assessment of seventh graders' technology literacy knowledge and skills, aligned to the Technology Applications curriculum and NCLB goals.

TL07

**Integrate student performance data from district/state assessment instruments with electronic curriculum resources to inform and differentiate instruction for every child.**

- 1.2.1: Collaborate with the Testing and Evaluation Department to continue implementation and support of online testing for End of Course, TELPAS, TAKS, and District Curriculum Diagnostic Benchmarks.
- 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
- 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.
- 2.1.3: Continue to develop and provide specialized training (e.g., New Employee Technology Orientation, eGrade, AUP, Curriculum Management System) on specific applications for a wide variety of audiences, including nurses, counselors, administrators, special education facilitators, etc.

TL08

**Support the use of emerging technologies aligned with state standards for developing greater levels of collaboration, inquiry, analysis, creativity and content production.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.

- 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.
- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.
- 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
- 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.

TL09

**Ensure anytime/anywhere access to technology-based learning for all students by providing appropriate devices, services, and support.**

- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 4.1.2: Align budget submissions (Bond, M&O) with a technology life cycle management plan in order to develop strategic budgetary projections for hardware and systems.
- 4.2.2: Continue to develop a redundant site to facilitate disaster recovery for critical technology systems.
- 5.1.2: Implement and support a new Internet filter (8e6).

- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
- 5.3.3: Acquire and implement software packaging and distribution tools to facilitate software installs, adds, moves, and changes in order to better meet customers' needs.
- 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.
- 5.3.9: Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.

TL10

**Ensure that school libraries have the latest technology and online resources for student research and curriculum integration.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.

TL11

**Support school library programs and use library standards to ensure that school libraries assist classroom teachers in teaching students, information literacy and Technology Applications knowledge and skills.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.3.2: Continue procurement and implementation of district-standard and emerging hardware and software through efficient, user-friendly, and cost-effective processes and in accordance with a technology lifecycle management plan where applicable (e.g., campus technology replacement, tablet PCs, mobile wireless laptops in carts, MP3 players, USB wireless cards, handheld computing devices).
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.

TL12

**Support the use of technology to promote student-centered learning across geographic and cultural boundaries that includes business and industry.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers

related to curriculum TEKS, projects, and activities.

- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
- 5.3.4: Add ceiling-mounted digital projectors in approximately 5,700 classrooms to facilitate teaching and learning.

TL13

**Utilize innovative strategies for the 24/7 delivery of specialized or rigorous courses and expanded curricular and instructional offerings through the use of technology, including online and other distance learning and digital content services to meet the diverse and personal learning needs of all students.**

- 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- 1.2.2: Subscribe to multiple online databases (e.g., EBSCO, Gale, Questia, Facts on File, Encyclopedia Britannica, etc.) to support information acquisition and instruction District-wide in libraries, classrooms, and labs.
- 1.2.3: Expand the Sirsi Library Management System, including a federated search capability, to support information acquisition and research for students.
- 1.2.4: Support and expand computer-based instructional initiatives for students, such as additional online/virtual courses, Plato for high school credit retrieval, RiverDeep Destination Math for elementary and middle school students, and FitnessGram for K-12.
- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.
- 5.3.9: Provide servers and storage for future instructional and operational applications, including online curriculum for students and staff.

TL14

**Provide curriculum to ensure personal safety for students in a digital world and Acceptable Use Policies that specify expectations and rules for students, parents, and teachers.**

- 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.
- 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.
- 1.3.1: Pilot the use of students' personal laptops on the District network to access the Internet and web-based applications.
- 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.
- 4.2.1: Evaluate incident response data (e.g., AUP violations, security threats, spam, viruses) and refine processes, procedures, and technical solutions to decrease the number of occurrences.
- 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.

TL15	<p><b>Implement innovative programs that promote parental involvement, increased communication with parents and community members, and community access to educational resources.</b></p> <ul style="list-style-type: none"><li>● 5.3.1: Deploy a wireless network to expand existing connectivity at all NISD campuses in order to support instructional and operational goals.</li></ul>
TL16	<p><b>Support teachers in developing classroom websites and online resources to share lessons, monitor student progress, and establish regular communications with parents and students.</b></p> <ul style="list-style-type: none"><li>● 1.1.1: Provide professional development to implement and support best practices for Campus Instructional Technologists (CIT), Campus Technology Facilitators (CTF), Elementary Computer Technologists (ECT), Campus Applications Technologists (CAT), Librarians, and Library Assistants to support student success and achievement.</li><li>● 1.1.3: Plan, develop, and implement bi-monthly professional development for all-level Technology Applications teachers related to curriculum TEKS, projects, and activities.</li><li>● 1.2.5: Continue to expand and support educators' use of the District's Curriculum Management System for designing and delivering data-driven instruction.</li><li>● 1.3.3: Continue to support students and teachers in the one-to-one wireless laptop initiative at Business Careers High School.</li><li>● 2.1.1: Continue the Training on Wheels program to provide all levels of technology professional development at multiple locations around the District.</li><li>● 2.2.1: Continue to develop online courses, content, resources, and online communities using the Moodle Learning Management System.</li></ul>