

## **GROOM ISD Technology Plan for E-Rate Year 19**

2016 - 2019

Jay Lamb  
SUPERINTENDENT

### **DISTRICT PROFILE**

ESC Region: 16  
City, State Zip: GROOM, TX 790390598  
Phone: (806) 248-7557  
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Number of Campuses: 1  
Total Student Enrollment: 150  
District Size: Under 500  
Percent Econ. Disadvantaged: 36.00%

Technology Expenditures: \$413,460.00  
- Teaching and Learning Budget: \$50,160.00  
- Educator Preparation and Development Budget: \$41,000.00  
- Leadership, Administration and Support Budget: \$12,000.00  
- Infrastructure for Technology Budget: \$310,300.00

Technology Expenditure Per Pupil: \$2,756.40  
Number of Campuses with High-Speed Broadband Internet Access: 1  
Percentage of Campuses with High-Speed Broadband Internet Access: 100.00%  
Number of Classrooms with High-Speed Broadband Internet Access: 16  
Percentage of Classrooms with High-Speed Broadband Internet Access: 100.00%  
Computer/Student Ratio: 1 student(s) for every computer  
Computer/Teacher Ratio: 1 teacher(s) for every computer  
Number of campuses that need to complete the Texas Campus STaR Chart: 1  
Percentage of campuses that have completed the Texas Campus STaR Chart: 0.00 %

### **PLAN INTRODUCTION**

Plan Last Edited: 01/12/2016

Technology Planning Committee:  
Jay Lamb, Tony Dodson, Stephen Vanderpool, Kamy Whatley, Lisa Roskens, Aimee Fields, Melissa Ritter, Jennifer Carter, and Frances Payton.

### **EXECUTIVE SUMMARY**

Groom ISD is striving to be a leader in technology among all school districts in Region 16. Our board is committed to a technology-rich curriculum and our students and teachers see the importance of a strong technology program.

### **NEEDS ASSESSMENT**

**Assessment Process:** The technology committee considers teacher input and research models to find the most effective and cost-efficient use of technology at each grade level. In addition, we strive to provide a technology-rich environment for both teachers and students. We are aware of trends in online delivery of instruction and in online testing. We are developing strategies to make sure that Groom ISD will be able to accommodate new models of instruction and new methods of online testing.

#### **Existing Conditions:**

The elementary classrooms at GISD were networked in 1992 with IBM PS/2 Model 25™s and Model 30™s and a Novell 3.12 Token-Ring network running IBM ICLAS (IBM Classroom LAN Administration System) and curriculum software (Writing to Read, Writing to Write, Stories and More, Measurement Time and Money, Exploring Math with Manipulatives, etc.) This network is still in place and is an important part of the basic curriculum for our kindergarten and first grade classes.

All classrooms have teacher computers for instructor use. Additionally, each teacher has a laptop furnished by the district for instructional use. All kids in grades 3-12 have a personal laptop provided by the district. Students in grades 6-12 are eligible to take their lap top home with parental approval and the payment of a hazard insurance premium. All personal computers at Groom ISD run Microsoft Windows XP Professional or Windows 7 Professional OS and are networked to a Windows domain. All personal computers have the Microsoft Office Suite installed. Other curriculum-specific software is installed on individual computers in specific classrooms as needed. Licenses for all IBM programs used on the Token-Ring network and all non-Microsoft programs (Adobe CS6, etc.) are licensed on a per-machine basis. The school purchases a yearly site license for all Microsoft products (operating systems and productivity software) at a cost of approximately \$5500 per year. All of the personal computers and laptop computers in the district have Internet access through the school's 100 Mbps Ethernet LAN.

All laptops access the LAN through a secure wireless LAN. The Groom ISD LAN is connected to the Internet via a broadband connection recently upgraded to 20 Mbps. Groom School has two computer labs that each have 13-16 personal computers. The labs are used for junior high school and high school technology classes and are also used for Internet access for students taking dual-credit courses. These two labs are available for other classes at any time they are not hosting a class. Groom ISD also has two (2) portable computer labs with 12 notebook computers that is available for classroom Internet projects or for online testing in grades PK-2. Additionally the resource classroom maintains a laptop cart with 25-30 units available for general use after their needs are met. The JH computer lab was updated in August 2011 with 14 new Windows 7 based computers. The Special Education department received 10 I-Pad units for student instructional use in September of 2011 and updated in 2015. In the Summer of 2012, 30 I-Pads were purchased for grades K-2; also, the high school computer lab was refurbished with 16 new Dell desktop computers. The Special Education Department also purchased seventeen (17) Dell laptop computers to replace part of their aging laptop cart. In the summer of 2013, infrastructure changes were initiated to establish a broadband connection (replacing the current T-1 lines) - in February 2014 this connection was increased from 3 Mbps to 20 Mbps to accommodate increased demand for bandwidth. Also, during the summer of 2014 several other upgrades were purchased: a new ISR router, a Dell domain server, and three 24-port POE network switches were installed to operate a system of security cameras and wireless controllers. In the Fall of 2013, with the assistance of a technology grant, teacher laptop computers were purchased, an additional storage server was purchased, and the entire wireless net was upgraded with a Dell wireless system. Three additional interactive whiteboards were also purchased in the Fall of 2013. All district classrooms now have interactive boards to support instruction. In the Fall of 2014, a 1-to-1 laptop initiative was begun in grades 3-12 with the assistance of a technology grant. Dell Latitude Laptops were purchased for every student in grades 3-12 at a cost just over \$95,000. Additionally, new mathematics and science textbook adoptions in grades 6-8, and 9-12 science were digital not print. In the Fall of 2015, additional digital textbook subscriptions were purchased in History, two ageing switches were replaced in the main computer rack, two additional domain controller servers were purchased, a local internet filter was purchased, and Region 16 ESC was employed to assist the district with Network Services.

There is one (1) Pentium-class Windows computer attached to the Ethernet LAN for use by administration and office staff and three (3) new Dell desktop CPUs also in use by District Administration. These computers are located in the business manager's office, the superintendent office, the school secretary's office and the principal's office. Each of these computers has the Microsoft Office suite. Student information (grades, attendance, etc.) is managed through TXEIS software which uses a web-interface to allow teachers, parents and students access to student information.

A complete list of machine configurations and software licenses is kept by the network administrator.

The infrastructure of the Groom ISD LAN includes a Cisco router, a Cisco ASA firewall, and three Cisco 2950 switches, providing 144 port connections to the LAN. All wireless connectivity is provided through an Dell wireless LAN with ten (10) wireless access points located throughout the school. The Groom ISD LAN runs behind the ASA firewall using a private address scheme. The network has two Windows domain controllers, and two file servers. All Internet access must pass through a content filter maintained by the Region 16 Education Service Center (and beginning in 2016 - a local content filter) and configured for the Groom ISD network by the GISD network administrator.

Region 16 maintains the WAN for most of the rural districts of the Texas panhandle, including Groom ISD. Through our contract agreement with the Region 16 Education Service Center in Amarillo, we receive both our broadband connection to the Internet and our Internet filtering service. The cost of the broadband connection is \$4,050 per month compared to \$880 for the old T-1 connections. Tony Dodson is the network administrator of the Ethernet and Token-ring LAN - along with assistance from Region 16 Personnel. He is responsible for the maintenance of the Groom ISD network and the maintenance of all computers in the school.

The Groom School Ethernet LAN has three black and white laser printers and two networked copiers (one black-and-white and one color-capable) for use by network users. Also, all classrooms that do not have network printers have shared stand-alone printers so that teachers and students in every classroom can print jobs in their own room. In addition, all administrative personnel have laser printers for local printing. All teachers, administrators, Board Members, and students who have Internet access have signed the Groom ISD Acceptable Use Policy. (See attachments for copies of the AUP.) The AUP was recently updated to include policies for the 1-to-1 laptop Initiative. Five (5) classrooms and both computer labs have document cameras and data projectors. In addition, three (3) portable data projectors are available for classroom demonstrations and presentations. The school has three (3) scanners placed in the computer labs and in the Math classroom for student/teacher use.

Current high school technology course offerings include: Computer Maintenance, Principles of Information Technology, Web Technologies, Digital Interactive Media, Desktop Publishing in alternating years.

### **Technology Needs:**

Although all teachers at Groom ISD are proficient in technology, we feel it is important to continue to provide staff development for both hardware and software. The purpose of this training is to facilitate integration of technology into the curriculum so that integration of technology becomes a natural part of education for all students and so students will become more proficient with basic software tools and the Internet and use technology as everyday learning tool. Specific training to be targeted in the coming year include teacher web page construction, utilizing on-line components in instruction, utilizing

interactive board technology in instruction, using Blogs and Web 2.0 tools in instruction, and incorporating technology-based assignments to facilitate student instruction. We also feel that we need to expand course offerings for all students and also to offer community education through the Internet and Interactive Technology. The committee also sees the need to expand our school web capabilities to allow for enhanced technological features like secure student log-ins, student e-mail, class blogs, on-line instructional content, and on-line assignment delivery by students via drop-boxes. This has been initiated with the addition of e-Chalk services as the new district website provider. Teachers have also received instruction in the use of Goggle Apps for Education - specifically, Goggle Classrooms.

The technology committee recognizes the need to replace out-of-date computers and course ware used in elementary math and language arts with Windows-based course ware, to provide more data projectors for classroom demonstrations, and to continually upgrade classroom computers to current hardware and software standards. We are striving to attain a one-to-one computer-to-student ratio for instruction and for future trends in online curriculum and testing.

## GOALS, OBJECTIVES, AND STRATEGIES

**Goal 1: All teachers at Groom ISD will be proficient with hardware and software technologies so that integration of technology and use of technologies as learning tools becomes a natural part of the education of all students.**

**Objective 1.1:** Teachers will become efficient with computer software and the pedagogies associated with integration of technology into the curriculum with the objective that the use of technology becomes a natural part of the teaching and learning processes.

Budget for this objective: \$35,000.00

LRPT Category: Educator Preparation and Development

E-Rate Correlates: ER01 ER02

NCLB Correlates: 01 02 04a 04b 05 07 11 12

**Strategy 1.1.1:** All teachers, administrators and library personnel will be trained in the use of Microsoft Word, PowerPoint, Excel, Web 2.0 tools, interactive white board technology, and various web browsers, and in the integration of information obtained from the Internet into the Microsoft Office Suite. All teachers will be trained in the integration of technology in the curriculum and address the curriculum-appropriate TEKS for their subject areas.

State: Revised

Status: In Progress

Timeline: Since most staff members at Groom ISD are proficient at most these skills, staff in-service training will be provided to individual teachers and new teachers on an as-needed basis. The entire staff will complete in-service training in interactive board technologies, and web 2.0 resources for instruction during the 13-14 year.

Person(s) Responsible: Technology Coordinator (local); Training provided by Region 16 ESC, Center for Educational Revision, or other resources on an as-needed basis.

Evidence: Training will be provided in skill areas determined by staff surveys. Evaluation will be based on teacher evaluations of in-service training (kept on file locally) and by evidence of integration of technology in the curriculum demonstrated by student projects.

Comments: Center for Educational Revision (CERV) is the grant administrator for a technology grant awarded to the District during the 13-14 year. The grant contributed \$30,000 for staff development.

LRPT Correlates: EP01, EP02, EP03, EP06, EP08, I01, I02, I04, LAS02, LAS06, LAS08, LAS10, LAS11, TL01, TL02, TL03, TL04, TL05, TL06, TL07, TL08, TL09, TL10, TL11, TL12, TL13, TL14, TL15, TL16

**Strategy 1.1.2:** All teachers will be trained in the use of portable computer labs and/or 1-to-1 computing technologies in their classrooms, in the use of interactive white boards, and data projectors.

State: Revised

Status: In Progress

Timeline: New teachers who have not used portable computer labs and data projectors will be trained during the in-service days each August, annually.

Person(s) Responsible: Technology Coordinator

Evidence: Check-out sheets for the computer carts indicates classroom use.

Comments:

LRPT Correlates: EP01, EP02, EP03, EP04, EP05, EP06, EP07, EP08, EP09, I01, I02, I03, I06, I07, LAS01, LAS02, LAS03, LAS04, LAS05, LAS06, LAS07, LAS11, TL01, TL02, TL03, TL04, TL05, TL06, TL09, TL10, TL11

**Strategy 1.1.3:** Teachers will be trained in the use of interactive white-board technology in the instructional process.

Additional training was provided in the Fall of 2013, Spring of 2014, and continues throughout the 2014-16 school years.

State: Revised

Status: In Progress

Timeline: August 2011 and Annually as Needed Thereafter

Person(s) Responsible: Principal and Superintendent

Evidence: Evidenced by increased teacher utilization of white board technology in the instructional process resulting in increased student engagement in the learning process.

Comments: All instructional areas are equipped with interactive board technologies for instructional use.  
LRPT Correlates: EP01, EP03, EP09, I09, LAS01, LAS03, LAS05, LAS10, TL05, TL08

**Goal 2: Replace older computers in the lower elementary classrooms with contemporary counterparts or i-Pad technologies able to support newer software and web-based programs.**

**Objective 2.1:** Groom ISD will use Ed-tech funds, grant funds, and the Federal REAP Grant to provide Windows-based course ware for classroom instruction.

Budget for this objective: \$35,000.00

LRPT Category: Teaching and Learning

E-Rate Correlates: ER01 ER02

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

**Strategy 2.1.1:** Upgrade Windows servers, and provide laptops or i-Pad technologies for use in District classrooms as needed.

State: Revised

Status: In Progress

Timeline: August 2013 ongoing

Person(s) Responsible: Technology Coordinator, Superintendent

Evidence: Equipment in place, invoices on file.

Comments:

LRPT Correlates: EP01, EP02, EP03, EP04, I01, I02, I03, I04, I06, LAS01, LAS02, LAS03, LAS04, LAS05, LAS10, LAS11, TL01, TL02, TL03, TL04, TL06, TL07, TL10, TL14

**Strategy 2.1.2:** Groom ISD will provide specific training to teachers on the use and integration of key instructional software to aid instruction.

State: Revised

Status: In Progress

Timeline: Each August 2013 and ongoing.

Person(s) Responsible: Principal, Technology Coordinator

Evidence: Teacher evaluation forms of in-service training.

Comments:

LRPT Correlates: EP01, EP02, EP03, EP04, EP09, I01, I02, I03, I04, I06, I07, I09, LAS01, LAS02, LAS03, LAS04, LAS05, LAS06, LAS10, LAS11, LAS15, TL01, TL02, TL03, TL04, TL10, TL15

**Strategy 2.1.3:** Mathematics, Reading, and Language Arts course ware will be utilized in the k-4 elementary curriculum to help in student achievement and for computer literacy.

State: Original

Status: In Progress

Timeline: 2010-2013 school years.

Person(s) Responsible: Principal

Evidence: Teacher lesson plans and PDAS evaluations indicate the incorporation of math and language arts courseware into the curriculum.

Comments:

LRPT Correlates: EP01, EP02, EP03, EP04, I01, I03, LAS01, LAS02, LAS04, LAS05, LAS06, LAS11, TL02, TL06

**Goal 3: Expand course offerings for all students and community education through Interactive Technology by including dual-credit offerings.**

**Objective 3.1:** Groom Students and community will use Interactive Technology by including dual-credit classes in which students can receive 15 to 18 hours of college credit while still in High School.

Budget for this objective: \$7,500.00

LRPT Category: Teaching and Learning

E-Rate Correlates: ER01

NCLB Correlates: 03 05 06 08 12

**Strategy 3.1.1:** GISD will offer dual credit courses through local community colleges (Amarillo College, Clarendon College) and universities (West Texas A&M University)

State: Original

Status: In Progress

Timeline: Each fall and spring semester.

Person(s) Responsible: Superintendent and Principal

Evidence: Enrollment of students and community members in dual-credit courses.

## Comments:

LRPT Correlates: EP01, EP02, EP03, EP04, I01, I02, I03, I04, LAS01, LAS02, LAS03, LAS04, LAS05, LAS06, LAS11, LAS15, TL01, TL02, TL03, TL04, TL08, TL10

**Objective 3.2:** Offer computer courses to our adults in the community that need help with the GED Program.

Budget for this objective: \$1,160.00

LRPT Category: Teaching and Learning

E-Rate Correlates: ER01 ER02

NCLB Correlates: 01 02 03 04a 05 06 07 09 10

**Strategy 3.2.1:** Groom ISD will collaborate with the Region 16 Education Service Center to provide GED classes.

State: Original

Status: In Progress

Timeline: 2010 and ongoing (as needed)

Person(s) Responsible: School counselor, Principal

Evidence: Enrollment figures

Comments:

LRPT Correlates: EP01, EP02, EP03, EP04, I01, I02, I03, I04, I09, LAS01, LAS02, LAS03, LAS04, LAS05, LAS06, LAS11, TL01, TL02, TL03, TL04, TL05, TL06, TL09, TL10

**Goal 4: Provide up to date technology for classroom demonstrations.**

**Objective 4.1:** Groom ISD will use ed-tech funds (as available), local funds, and other federal grant money to provide data projectors, elmo's and interactive boards for classroom implementation to help teachers instruct in the TEKS.

Budget for this objective: \$25,000.00

LRPT Category: Infrastructure for Technology

E-Rate Correlates: ER01 ER02

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

**Strategy 4.1.1:** GISD will purchase additional data projectors, elmos, and interactive boards for use in classroom instructional settings, as needed.

State: Revised

Status: In Progress

Timeline: 13 new Promethian Boards were purchased in 2010 - additional interactive boards were purchased in the Fall of 2013.

Person(s) Responsible: Technology Coordinator and Superintendent

Evidence: Equipment is in place and invoices are on file.

Comments:

LRPT Correlates: EP01, EP02, EP03, EP05, I01, I02, I03, I04, I06, LAS01, LAS02, LAS03, LAS04, LAS11, TL01, TL02, TL03, TL10, TL11

**Objective 4.2:** Groom ISD will pursue private grant sources and use local resources to maintain teacher and student technology in the current 1 to 1 student/teacher to computer ratio.

Budget for this objective: \$6,500.00

LRPT Category: Teaching and Learning

E-Rate Correlates: ER01

NCLB Correlates: 01 02 03 07 08

**Strategy 4.2.1:** Groom ISD will pursue private grant sources to upgrade teacher technology by providing each teacher with a new laptop computer to utilize with the smart board technology currently in their classroom.

State: Original

Status: Completed

Timeline: Spring 2012 - ongoing

Person(s) Responsible: Superintendent, Technology Coordinator

Evidence: Grants currently filed with private grant vendors.

Comments: Monsanto Education Community Development Grant filed for Teacher Technology - March 2012. Tech Grant administered through CERV awarded in the Fall of 2013.

LRPT Correlates: EP01, EP03, I04, I06, LAS10, TL01, TL05, TL08, TL12

**Strategy 4.2.2:** Groom ISD will utilize grant funds to initiate a 1-to-1 Laptop Initiative in grades 3-12 in the 2014-15 school year.

State: Original

Status: Completed

Timeline: August 2014

Person(s) Responsible: Superintendent, Technology Coordinator, Principal

Evidence: Laptops in use by students.

Comments: Laptops purchased through a technology grant.

LRPT Correlates: I01, I02, I04, I05, I09, LAS05, LAS15, TL01, TL02, TL05, TL08, TL09, TL12

**Strategy 4.2.3:** Groom ISD will implement a replacement plan for approximately 1/3 of the student and teacher lap tops annually.

State: Original

Status: Planned

Timeline: August 2017 - Continuous

Person(s) Responsible: Technology Coordinator & District Superintendent

Evidence: Purchase of replacement computers - annually

Comments: Replacement cycle to ensure that lap tops stay current, functional, and up-to-date. Replace Approximately 30-40 units annually - 3-5 year duty cycle

LRPT Correlates: I01, I02, I04, I05, I06, I09, LAS15, TL01, TL03, TL09, TL12

### **Goal 5: Upgrade all classroom computers, computer labs, and lap-top computers for new testing and classroom requirements**

**Objective 5.1:** Groom ISD will upgrade the remaining Pentium III computers in classrooms to the latest class of hardware, operating system and Microsoft Office Suite

Budget for this objective: \$30,000.00

LRPT Category: Infrastructure for Technology

E-Rate Correlates: ER01 ER02

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

**Strategy 5.1.1:** Groom ISD will upgrade motherboards, CPU's, and hard drives on all class room PC's that still have Pentium III systems to the current class of hardware, operating system, and application software.

State: Original

Status: In Progress

Timeline: New equipment will be bought and upgraded as needed 2010 and ongoing.

Person(s) Responsible: Technology Coordinator and Superintendent

Evidence: Equipment is in place, invoices are on file.

Comments:

LRPT Correlates: EP01, EP02, EP03, EP08, I01, I02, I03, I06, LAS01, LAS02, LAS03, LAS04, LAS05, LAS06, LAS11, TL01, TL02, TL03, TL04, TL05, TL10, TL11

**Objective 5.2:** Groom ISD will update the existing computer labs and lap tops by maintaining an appropriate replacement cycle to ensure optimum Internet access, support technology-based courses, and support on-line instruction and testing.

Budget for this objective: \$10,000.00

LRPT Category: Infrastructure for Technology

E-Rate Correlates: ER01

NCLB Correlates: 03 04a

**Strategy 5.2.1:** Groom ISD will update the JH computer lab with Windows 7 - based computers to enhance student technology courses (CATE Business Courses including Keyboarding), provide for enhanced Internet access, support on-line Dual-Credit coursework, and to support on-line testing access for students.

State: Original

Status: Completed

Timeline: August-September 2012

Person(s) Responsible: Principal and Superintendent

Evidence: Replacement of 14 old Computers with new Windows 7 based computers.

Comments: The JH computer lab upgrade was completed in late August 2012 utilizing local tech funds and State CATE funds.

LRPT Correlates: I01, I04, I05, I06, I09, LAS15, TL09

**Strategy 5.2.2:** Groom ISD will update the High School computer lab with Windows 7 (or newer) based computers to enhance student technology courses, provided for enhanced internet access, support on-line testing, and Dual-Credit coursework for students.

State: Original

Status: Completed

Timeline: Summer 2012

Person(s) Responsible: Superintendent and Tech Coordinator

Evidence: Replacement of 16 desktop computers with new Dell Windows 7 Systems

Comments: The HS lab update was completed in late August 2012 due to the initiation of new technology courses at the High School. It was accomplished through the use of CATE and Local funding.

LRPT Correlates: I01, I04, I05, I06, I09, LAS15, TL09

**Goal 6: Purchase replacement laptop computers, desk top computers, and other technologies to prepare our school for online State Assessments, classroom instruction, web-based classes, and other programs.**

**Objective 6.1:** Groom ISD will purchase replacements for the laptop computers for all grades so that the computers remain up-to-date and can be used for online state assessments.

Budget for this objective: \$36,000.00

LRPT Category: Infrastructure for Technology

E-Rate Correlates:

NCLB Correlates: 01 02 03 04a 04b 05 07 08 11

**Strategy 6.1.1:** Groom ISD has been in the process of purchasing new laptops to replace aging laptops that can no longer support web-based learning and state testing.

State: Revised

Status: In Progress

Timeline: Purchased 15 student laptops in 2010, 27 student laptops in 2013 and will continue to purchase more as needed.

Person(s) Responsible: Technology Coordinator and Superintendent

Evidence: Purchase orders for new laptops.

Comments:

LRPT Correlates: EP01, EP02, EP03, EP04, EP06, I01, I02, I03, I04, I05, I07, I08, LAS01, LAS02, LAS03, LAS05, LAS06, LAS08, LAS09, LAS10, TL01, TL02, TL03, TL05, TL06, TL08, TL09, TL10, TL12

**Goal 7: Maintain a virus-free network environment while still providing the wireless network to all classes over the entire school system.**

**Objective 7.1:** Groom ISD will use ed-tech funds and federal grants provide appropriate software to maintain a virus-free network environment.

Budget for this objective: \$20,000.00

LRPT Category: Infrastructure for Technology

E-Rate Correlates: ER01 ER02

NCLB Correlates: 02 04b 05 06 11

**Strategy 7.1.1:** Latest Microsoft security patches and MacAfee virus protection software (or equivalent) will be applied to all computers

State: Original

Status: In Progress

Timeline: Ongoing throughout the 2010 - 2015 school years.

Person(s) Responsible: Technology Coordinator

Evidence: Groom ISD will maintain a virus-free network environment demonstrated by a minimal amount of down-time due to virus outbreaks. Invoices for virus software on file.

Comments:

LRPT Correlates: EP01, EP02, EP03, EP04, EP06, I01, I02, I04, I05, I06, LAS01, LAS02, LAS03, LAS04, LAS05, LAS06, LAS07, LAS11, TL01, TL02, TL03, TL04, TL05, TL10

**Objective 7.2:** Groom ISD will take steps to ensure internet content is educationally appropriate for students.

Budget for this objective: \$10,000.00

LRPT Category: Infrastructure for Technology

E-Rate Correlates: ER01

NCLB Correlates: 03 12

**Strategy 7.2.1:** Groom ISD will deploy a local content filtering system to enhance content filtering currently provided by Region 16 ESC and to provide for safer internet computing while district computers are away from the school, at home with students.

State: Original

Status: Planned

Timeline: Fall 2015-Spring 2016

Person(s) Responsible: Technology Coordinator

Evidence: Installation and Operation of Local Content Filter

Comments: The District is seeking to enforce content filtering restrictions while district-issued lap tops are in use away from the school. This will promote safer internet practices by students and protect the network from malware being brought in by

devices infected while outside the network.

LRPT Correlates: I01, I04, I05, I07, LAS05, TL09, TL14

**Goal 8: Maintain a District website that will provide numerous resources for the staff, students, parents, and community members.**

**Objective 8.1:** Groom ISD's administration and Board will work to maintain a district web site that contains all the required updates and state-mandated school information, plus incorporates enhanced technological tools including student secure e-mail features, student secure log-ins, student/teacher blogs, and supports teacher web-page development, and on-line course instruction.

Budget for this objective: \$12,000.00

LRPT Category: Leadership, Administration and Support

E-Rate Correlates: ER01

NCLB Correlates: 01 02 03 04a 06 07 08 09 11 12

**Strategy 8.1.1:** The Groom HS Web Mastering and Journalism students will help the administration maintain the Groom ISD web site by providing up to date information on school activities.

State: Revised

Status: In Progress

Timeline: Fall 2010 and ongoing.

Person(s) Responsible: Technology Instructor, Journalism instructor, and Technology Coordinator

Evidence: <http://www.groomisd.net> will be current.

Comments:

LRPT Correlates: EP01, EP02, EP03, EP06, I01, I02, I05, I06, LAS02, LAS03, LAS04, LAS05, LAS11, TL01, TL02, TL04, TL05, TL06, TL09, TL10, TL11

**Strategy 8.1.2:** The Groom ISD website will incorporate pages maintained by administration and teachers for the purpose of communicating pertinent information to students and the community.

State: Revised

Status: In Progress

Timeline: <http://www.groomisd.net> currently transmits information about school board meetings, AEIS status, etc. By the 2010-2013 school year, teachers will begin using the website to create pages that communicate classroom information to students and parents.

Person(s) Responsible: Technology Coordinator will provide training in web-page creation to teachers who want to maintain a page on the Groom ISD website.

Evidence: Teachers' class pages will be on the website.

Comments: Website is up and running.

LRPT Correlates: EP01, EP02, EP03, EP04, EP06, I01, I02, I03, I04, I05, I06, LAS01, LAS02, LAS03, LAS04, LAS05, LAS06, LAS07, LAS08, LAS09, LAS10, LAS11, LAS12, LAS13, LAS14, LAS15, TL01, TL02, TL03, TL05, TL06, TL09, TL10, TL11, TL14

**Strategy 8.1.3:** Teachers will be trained in the development of instructional web-pages to support on-line class delivery, enhance parental involvement, and promote student engagement in the instructional process.

State: Original

Status: In Progress

Timeline: August 2012 - ongoing.

Person(s) Responsible: Principal, Technology Coordinator, and Superintendent

Evidence: Presence and Utilization of instructional web pages by teachers.

Comments: The objective of the district is for all secondary courses (at a minimum) to have a web-based component included in the course delivery, so that students will learn to utilize technological resources to become producers of knowledge, not just passive listeners in the instructional process.

LRPT Correlates: EP01, EP09, LAS03, LAS05, LAS09, LAS10, TL08, TL12, TL13, TL14, TL15, TL16

**Goal 9: Upgrade Internet access by upgrading from T-1 technology to Broadband connectivity.**

**Objective 9.1:** Groom ISD will use ed-tech funds and funds from local sources to upgrade internet connectivity from our current T-1 configuration to Broadband connectivity at a minimum of 20 Mbps.

Budget for this objective: \$139,800.00

LRPT Category: Infrastructure for Technology

E-Rate Correlates: ER01 ER02

NCLB Correlates: 01 02 03 05 07 08 11 12

**Strategy 9.1.1:** Current T-1 technologies will be upgraded to Broadband technologies for internet connectivity to support



increased instructional technology needs operating at a minimum of 20 Mbps.

State: Revised

Status: Completed

Timeline: Spring 2014.

Person(s) Responsible: Superintendent and Technology Coordinator

Evidence: Completed connection upgrade with internet speeds at 20 Mbps.

Comments: Upgrade completed in the middle of the 13-14 school year. increased costs associated with upgrade supported by Technology Grant and local resources.

LRPT Correlates: EP08, I01, I02, I05, I06, I08, I09, LAS05, LAS11, LAS15, TL08, TL09, TL15, TL16

**Goal 10: Groom ISD will monitor and improve the network infrastructure as needed.**

**Objective 10.1:** Groom ISD will upgrade network infrastructure by updating the current switches and domain controllers (Network Servers).

Budget for this objective: \$15,000.00

LRPT Category: Infrastructure for Technology

E-Rate Correlates: ER01

NCLB Correlates: 03

**Strategy 10.1.1:** Groom ISD will seek E-Rate funding for the replacement of ageing switches and will use local resources for the replacement of two network servers (local Domain Controllers).

State: Original

Status: Completed

Timeline: Fall 2015

Person(s) Responsible: Technology Coordinator and Superintendent

Evidence: Installation and operation of new internet services router.

Comments: Funded with local resources and Federal REAP funds.

LRPT Correlates: I01, I02, I05, I06, I07, I08, TL08, TL09

**Objective 10.2:** Groom ISD will upgrade the current network switches by adding POE capable switches to support the installation of district security cameras and the expansion of the wireless network.

Budget for this objective: \$2,500.00

LRPT Category: Infrastructure for Technology

E-Rate Correlates: ER01

NCLB Correlates: 01 03

**Strategy 10.2.1:** Groom ISD will purchase three POE capable switches to expand the current wireless network and for the installation of district security cameras.

State: Original

Status: Completed

Timeline: Summer-Fall 2013

Person(s) Responsible: Technology Coordinator and Superintendent

Evidence: Purchase and installation of the switches.

Comments:

LRPT Correlates: I01, I02, I05, I06, I09, TL08, TL09

**Objective 10.3:** Groom ISD will seek upgrades to the network infrastructure as necessary to maintain a robust network capable of meeting district needs.

Budget for this objective: \$20,000.00

LRPT Category: Infrastructure for Technology

E-Rate Correlates: ER01

NCLB Correlates: 03 05 06 12

**Strategy 10.3.1:** Groom ISD will replace an aging domain-control server utilizing local resources.

State: Original

Status: Completed

Timeline: Summer 2013

Person(s) Responsible: Superintendent and Tech Coordinator

Evidence: Server replacement on-site, installed, and operational.

Comments:

LRPT Correlates: I01, I02, I03, I05, I06, I07, I08, LAS11, TL09, TL10, TL12

**Strategy 10.3.2:** Groom ISD will utilize available grant funding to replace an aging file-server.

State: Original

Status: Completed  
 Timeline: Fall 2013  
 Person(s) Responsible: Technology Coordinator and Superintendent  
 Evidence: Server on-site, installed, and operational.  
 Comments: Technology grant funded server replacement.  
 LRPT Correlates: EP08, I01, I02, I04, I05, I06, I07, I08, LAS11, LAS14, TL09

**Strategy 10.3.3:** Groom ISD will improve the quality of the local network by replacing two domain control servers to enhance communications within the network.

State: Original  
 Status: Planned  
 Timeline: Fall 2015 - Spring 2016  
 Person(s) Responsible: Tony Dodson, Jay Lamb, and Region 16 Personnel  
 Evidence: Completed Network Upgrade  
 Comments: This project requires network down time that will be scheduled at the best opportunity during the 2015-2016 school year.  
 LRPT Correlates: I01, I05, I06, I08, TL08, TL09

**Objective 10.4:** Groom ISD will upgrade the district firewall with the purchase of NEW Cisco ASA5515-X firewall.

Budget for this objective: \$2,000.00  
 LRPT Category: Infrastructure for Technology  
 E-Rate Correlates: ER01  
 NCLB Correlates: 02 03 07 12

**Strategy 10.4.1:** Groom ISD will use grant resources to upgrade the existing network firewall with a new Cisco ASA5515-X firewall in the Fall of 2014.

State: Original  
 Status: Completed  
 Timeline: Fall 2014  
 Person(s) Responsible: Superintendent, Principal, Technology Coordinator  
 Evidence: Replacement of Existing Firewall  
 Comments:  
 LRPT Correlates: I01, I05, I06, I09, LAS05, LAS10, LAS11, TL05, TL09, TL14

**Goal 11: Groom ISD will encourage participation in the Texas Computer Educator Association by the Technology Coordinator and district staff representatives.**

**Objective 11.1:** Groom ISD will fund staff representatives and the technology coordinator to participate in the annual Texas Computer Educator Association (TCEA) Conference to learn about new and emerging technologies for the District.

Budget for this objective: \$6,000.00  
 LRPT Category: Educator Preparation and Development  
 E-Rate Correlates: ER02  
 NCLB Correlates: 01 02 04a 04b 07

**Strategy 11.1.1:** Groom ISD will provide for annual participation in the Texas Computer Educator Association and its annual convention for the Technology Coordinator, and staff representatives - as funding permits.

State: Original  
 Status: In Progress  
 Timeline: Spring 2014 - ongoing.  
 Person(s) Responsible: Principal and Superintendent  
 Evidence: Participation in the TCEA organization and conference.  
 Comments: Initial year funded by the Technology Grant.  
 LRPT Correlates: EP01, EP03, EP04, EP06, EP08, EP09, I03, LAS01, LAS06, LAS10, TL08, TL09, TL12, TL16

## BUDGET

Total amount of Title II, Part D formula funds received for the current year of this plan: \$0.00

Method of application for formula funds:

Budget for year 2016  
 - Telecom cost: \$53,100.00  
 - Telecom source: local/17,600  
 e-rate/35,500  
 - Materials cost: \$54,800.00

- Materials source: local/38,300
- REAP(Fed)/10,000
- IDEA (Fed)/6,500

- Equipment cost: \$22,000.00
- Equipment source: local/8,500
- REAP (Fed)/12,000
- IDEA (Fed)/6,500
- Maintenance cost: \$1,000.00
- Maintenance source: local/1,000
- Staff development cost: \$5,960.00
- Staff development source: local/1,500
- Title II/I - 4,460
- Miscellaneous cost: \$1,000.00
- Miscellaneous source: local/1,000
- Total: \$137,860.00

#### Budget for year 2017

- Telecom cost: \$53,100.00
- Telecom source: local/17,600
- e-rate/35,500
- Materials cost: \$54,800.00
- Materials source: local/38,300
- REAP(Fed)/10,000
- IDEA (Fed)/6,500
- Equipment cost: \$22,000.00
- Equipment source: local/8,500
- REAP (Fed)/12,000
- IDEA (Fed)/6,500
- Maintenance cost: \$1,000.00
- Maintenance source: Local/1,000

- Staff development cost: \$5,900.00
- Staff development source: local/1,500
- Title I/II - 4,400
- Miscellaneous cost: \$1,000.00
- Miscellaneous source: local/1,000
- Total: 137,800.00

#### Budget for year 2018

- Telecom cost: \$53,100.00
- Telecom source: local/17,600
- e-rate/35,500
- Materials cost: \$54,800.00
- Materials source: local/38,300
- REAP(Fed)/10,000
- IDEA (Fed)/6,500
- Equipment cost: \$22,000.00
- Equipment source: local/8,500
- REAP (Fed)/12,000
- IDEA (Fed)/6,500
- Maintenance cost: \$1,000.00
- Maintenance source: Local/ 1,000
- Staff development cost: \$5,900.00
- Staff development source: local/1,500
- Title I/II - 4,400
- Miscellaneous cost: \$1,000.00
- Miscellaneous source: Local/ 1,000
- Total: 137,800.00

#### EVALUATION

##### Evaluation Process:

The Groom ISD technology committee reviews the technology plan. In this process, the previous technology plan is reviewed and obsolete goals are removed. Goals that are still appropriate are reviewed and updated, and the report of the technology

committee is reported to the school board.

**Evaluation Method:**

Teacher, parent, and student surveys.

Certificate of completion required from each teacher for any technology training. **APPENDIX**

**Attachment item A:**

Under Student Information - This is the GISD Student Acceptable Use Policy.

Web site: <http://www.groomisd.net>

**Attachment item B:**

Under Employee Resources - This is the GISD Teacher Acceptable Use Policy.

Web site: <http://www.groomisd.net>

**Attachment item C:**

Under Board Resources - This is the GISD Board Member Acceptable Use Policy.

Web site: <http://www.groomisd.net>