



Brownwood Independent School District

Technology Plan 2017-2020

**Dr. Joe Young
Superintendent**



DISTRICT PROFILE

ESC Region: 15
City, State Zip: BROWNWOOD, TX 76804-0730
Phone: (325) 643-5644
Fax: (325) 643-5640

Number of Campuses: 9
Total Student Enrollment: 3677
District Size: 3,000 - 4,999
Percent Econ. Disadvantaged: 67.45%

Technology Expenditures: \$2,230,000.00

- Teaching and Learning Budget: \$915,000.00
- Educator Preparation and Development Budget: \$550,000.00
- Leadership, Administration and Support Budget: \$150,000.00
- Infrastructure for Technology Budget: \$615,000.00

Technology Expenditure Per Pupil: \$639.15

Number of Campuses with High-Speed Broadband Internet Access: 9
Percentage of Campuses with High-Speed Broadband Internet Access: 100.00%
Number of Classrooms with High-Speed Broadband Internet Access: 233
Percentage of Classrooms with High-Speed Broadband Internet Access: 100.00%
Computer/Student Ratio: 2 student(s) for every computer
Computer/Teacher Ratio: 1 teacher(s) for every computer

Technology Planning Committee:

Liesa Land – Deputy Superintendent
Mark Stanley - Director of Technology
Elizabeth Gilmore - District Instructional Technologist
Amber Keeney - Teacher
Angela Fabbiani - Teacher
Erica Templeton - Teacher
Garry Eoff - Teacher
Guadalupe Vazquez - Teacher
Juli Frank - Teacher
Kaitlin Leslie - Teacher
Kristina Owen - Teacher
Laura Scantling - Teacher
Leah Lee - Teacher
Leslie Kirwan - Teacher
Linda Cooper - Teacher
Lisa Biasioli - Teacher
Stephanie Morton - Teacher
Tracy Philbrick - Teacher



EXECUTIVE SUMMARY

The Brownwood Independent School District is committed to developing self-directed and intellectually-prepared graduates who are able to sustain themselves in a technology-dependent world. To fulfill this commitment, Brownwood ISD is pursuing initiatives in education that will provide valuable learning experiences for our students to maximize their potential to become lifelong learners and contributors to society. Integrating technology into the curriculum has the potential to transform schools and assist in preparing students for future personal and professional success. As students integrate technology into their learning experiences, they will gain more control over their own learning, increase the quality and quantity of their thinking and writing, nurture artistic expression, and engage them in solving complex problems. Brownwood ISD has prepared this Long-Range Technology Plan to articulate a common vision for technology in the district and identify the strategies that will help us use new technology to improve the academic achievement of all students. However, since new technology emerges and becomes available daily, the Plan represents a "work-in-progress". As the Plan is evaluated, items of need will be added and those that have been completed will be removed.

NEEDS ASSESSMENT

Assessment Process: The Brownwood ISD Technology Plan Committee used the Texas Campus STaR Chart, TAKS/STAAR Scores, administrator and teacher surveys, interviews with site and district administrators, inventories, and local benchmarks to determine the major needs of the school district. The committee analyzed drop-out rates, attendance, advanced placement scores, ACT/SAT scores and enrollment. They also looked at this year's TAKS/STAAR scores and compared them to previous year's scores along with the overall scores for the state. The committee members then used this information and interviewed the staff to analyze the current status of technology in the district and determine future needs.

Existing Conditions:

Brownwood High School/ Alternative School

- Direct connection to the Internet via a high speed WWAN connection.
- Fiber-backbone, Ethernet-to-the-desktop connected computer labs and classrooms, file servers for advanced technology classes, including desktop publishing, advanced word processing, web mastering, digital graphics and animation, video technology, and computerized accounting.
- Networked online card catalog, Internet access, Texas Library Connection, and automated checkout in the library.
- Hosted VoIP phone system with a phone in every classroom.
- High density/capacity wireless access for all areas.
- 1-to-1 laptop program for all students and teachers.

Brownwood Middle School

- Direct connection to the Internet via a high speed WWAN connection.
- Server for students with middle school information, programs, and projects.
- Ethernet-to-the-desktop connected computer labs and classrooms.



- Networked online card catalog, Internet access, Texas Library Connection, and automated checkout in the library.
- High density/capacity wireless access for all areas.
- Hosted VoIP phone system with phone in every classroom.

Brownwood Intermediate Campus

- Direct connection to the Internet via a high speed WWAN connection.
- Ethernet-to-the-desktop connected computer labs and classrooms.
- LCD projectors for classroom checkout.
- Three networked computer labs with full-time teaching assistants to aid the staff in technology implementation and training.
- Networked online card catalog, Internet access, Texas Library Connection, and automated checkout in the library.
- Hosted VoIP phone system with phone in every classroom.

Brownwood Elementary Campuses

- Direct connection to the Internet via a high speed WWAN connection.
- Ethernet-to-the-desktop connected computer labs and classrooms.
- LCD projectors on every campus for classroom checkout.
- All elementary schools have at least one networked computer lab with full-time teaching assistant to aid the staff in technology implementation and training.
- Networked online card catalog, Internet access, Texas Library Connection, and automated checkout in the library.
- Hosted VoIP phone system with phone in every classroom.

Technology Needs:

Brownwood ISD has a large special education population and a large ESL population. We need to be able to prepare these students with updated programs and equipment to take advantage of the new programs available to the schools. While there is great competition for employment in the job market, Brownwood ISD is committed to preparing our students with the best technology training available. Brownwood ISD takes pride in preparing our students to attend higher education programs through the use of Distance Learning and technology. With new equipment and new software, we need a variety of focused staff development to train our staff on new technology and to ensure that we are preparing our students for a successful future in a digital age. With the rapid change of technology, Brownwood ISD needs a plan to replace older technology with new technology. Brownwood ISD administration and staff depend on technology to assist with our daily work load. We must maintain our current infrastructure while planning for remodeling and upgrading for the continued success of our schools.

GOALS, OBJECTIVES, AND STRATEGIES

Goal 1: Brownwood ISD will integrate technology in all subject areas to increase student performance and achievement.

Objective 1.1: 100% of all students in all student groups in K-12 will have access to technology and training in the use of that technology.

Budget for this objective: \$765,000.00



LRPT Category: Teaching and Learning
E-Rate Correlates:
NCLB Correlates: 02 03 04a 06 07 11 12

Strategy 1.1.1: Provide teachers access to software programs suited to their classroom needs.

State: Revised

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Classroom Teacher, Campus Administrator, District Administrator

Evidence: Lesson Plans, Six week logs of student/technology contact time.

Comments: Observed student integration of technology skills in core curriculum areas.

LRPT Correlates: LAS01, LAS02, LAS03, TL01, TL05, TL06, TL08, TL09, TL12, TL13

Strategy 1.1.2: Provide technical support/training to teachers for their requested software programs.

State: Revised

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Coordinator, Campus Administrator, Technology Support Staff

Evidence: Documentation of staff development and training.

Comments: Teacher use of software and technology to enhance instruction as evidenced in lesson plans.

LRPT Correlates: EP01, EP03, EP05, EP06, EP07, EP08, TL02, TL04, TL07

Strategy 1.1.3: Update and upgrade district technology - including wireless access at all campuses, additional Internet bandwidth, ancillary equipment, and computers for classroom instructional support using local funds, E-Rate funds, and federal and private grants.

State: Revised

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Network Administrator, Technology Support Staff, District Administrators

Evidence: Documentation of additions and inventory locations, additions/purchases listing.

Comments:

LRPT Correlates: I01, I02, I03, I04, I05, I06, I07, I08, LAS01

Strategy 1.1.4: Integrate instruction in grade level TEKS and core curriculum with components of technology.

State: Revised

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Campus Administrators

Evidence: Lesson plans and evidence of student generated products.

Comments: Observed student integration of technology in core curriculum areas.

LRPT Correlates: TL01, TL03, TL04, TL05, TL06, TL08, TL09, TL10, TL12, TL13

Objective 1.2: Brownwood ISD will identify, monitor, and serve all at-risk students with the aid of



technology.

Budget for this objective: \$150,000.00

LRPT Category: Teaching and Learning

E-Rate Correlates: ER01 ER02

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

Strategy 1.2.1: Provide student testing and reading materials (audio players, books, headphones) in the LEP student's native language in libraries and classes. Reinforce ESL instruction through the use of research based computer software.

State: Revised

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Librarians, ESL Staff, Technology Support Staff

Evidence: The percentage of limited English proficient students, determined by LPAC, who have attained English proficiency by the end of the school year.

Comments:

LRPT Correlates: TL01, TL04, TL05, TL06, TL09, TL12, TL13, TL15

Strategy 1.2.2: Provide credit recovery options for at-risk students through the use of Odysseyware and other online resources.

State: Revised

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Campus Administrators

Evidence: Number of at-risk students attempting credit recovery versus the number of at-risk students receiving credit.

Comments: Odysseyware is a web based accelerated curriculum designed for individual-paced credit recovery.

LRPT Correlates: LAS15, TL01, TL04, TL05, TL06, TL07, TL09, TL12, TL13, TL14, TL15

Strategy 1.2.3: Benchmark Testing and Data Analysis will be used to support researched based planning focused on student success.

State: Original

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Deputy Superintendent, Superintendent

Evidence: Data from student test scores.

Comments:

LRPT Correlates: LAS08

Goal 2: All students will be taught by highly qualified teachers.

Objective 2.1: Highly qualified teachers will teach 100% of all classes, 100% of paraprofessionals assisting with student instruction will be qualified, and 100% of teachers will receive high quality professional development. (ESEA Performance Indicators 3.1, 3.2, 3.3)

Budget for this objective: \$450,000.00

LRPT Category: Educator Preparation and Development



E-Rate Correlates: ER02

NCLB Correlates: 01 02 03 04a 04b 06 07 08 10 11 12

Strategy 2.1.1: Teachers and administrators will receive sustained, intensive, classroom focused professional development, including instructional technology, in order to address the learning needs of all students.

State: Revised

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Campus Administrator, District Administrator, ESC 15 Staff

Evidence: Documentation of training or professional development, annual appraisals, student performance on annual tests.

Comments: We will use local resources as well as the Service Center Region XV for staff development.

LRPT Correlates: EP01, EP02, EP03, EP04, EP05, EP06, EP07, EP08, EP09, LAS01, LAS02, LAS06, LAS12

Strategy 2.1.2: Provide teachers access to software programs suited to their classroom needs.

State: Revised

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Campus Administrators

Evidence: Six week logs of student/technology contact time, lesson plans, observed student integration of technology skills in core curriculum areas.

Comments:

LRPT Correlates: EP02, EP03, EP05

Strategy 2.1.3: Provide technical support/training to teachers for their requested software programs.

State: Revised

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Technology Support Staff

Evidence: Documentation of staff development and training, teacher use of software and technology to enhance instruction.

Comments: Brownwood ISD will maintain a full time Director of Technology. In addition, we will have campus support coordinators to assist teachers in technology.

LRPT Correlates: EP03, EP04, EP05, EP06

Goal 3: Brownwood ISD will maintain a fast and stable infrastructure for the purpose of communication.

Objective 3.1: Brownwood ISD will maintain open communication between the administration, staff, parents, and the community.

Budget for this objective: \$150,000.00

LRPT Category: Leadership, Administration and Support



E-Rate Correlates: ER02
NCLB Correlates: 04b 09

Strategy 3.1.1: Brownwood ISD will maintain appropriate connections to the Internet for the purpose of Internet access, e-mail communication, and for a presence on the World Wide Web. All campuses will be connected via fiber through the Administration Building for the purpose of Internet access.

State: Revised

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Network Administrator, Technology Support Staff

Evidence: Reports and statements from Service Center indicating the WWAN is up and functional. Reports from district firewall/content filter showing utilization and load.

Comments: Brownwood ISD uses e-mail to communicate with the staff, administration, and parents. In addition, we use the web page to post information pertinent to Brownwood ISD. Community members and parents receive district and appropriate student information via the district's electronic communication systems.

LRPT Correlates: EP02, LAS03, LAS04, LAS05, LAS07, LAS14

Strategy 3.1.2: Provide and maintain an online grade reporting program allowing parents access to their student's assignments, progress, and grades.

State: Original

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Campus Administrators, Technology Support Staff, District Administrators

Evidence: Parent Surveys, parent participation.

Comments:

LRPT Correlates: I09, LAS03, LAS04, LAS09, LAS11, TL16

Strategy 3.1.3: To promote opportunities for community members to learn or enhance their computer skills.

State: Original

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Technology Support Staff, District Administration

Evidence: Community involvement, community surveys.

Comments:

LRPT Correlates: LAS03, LAS04, LAS05, LAS13

Objective 3.2: Brownwood ISD will offer up-to-date technology to the students and teachers of Brownwood ISD.

Budget for this objective: \$615,000.00

LRPT Category: Infrastructure for Technology

E-Rate Correlates:

NCLB Correlates: 02 03 05 06



Strategy 3.2.1: Maintain a computer network infrastructure that will support the learning process.

State: Original

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Network Administrator, Technology Support Staff

Evidence: Internet availability, Intranet availability.

Comments:

LRPT Correlates: I02, I03, I04, I05, I06, I07, I08

Strategy 3.2.2: Brownwood ISD will establish an equipment lifecycle schedule so that all network equipment and computer systems keep pace with current technology.

State: Revised

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Technology Support Staff, District Administrators
Campus Administrators

Evidence: Purchase Orders and invoices, lifecycle plan.

Comments:

LRPT Correlates: I04, I05, I06, I07

Strategy 3.2.3: Maintain a district-wide VoIP system.

State: Original

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Network Administrator, Technology Support Staff,
District Administrators

Evidence: History of issues, on-demand assistance, cost savings to district phone bills.

Comments:

LRPT Correlates: EP01, EP07, EP08, I01, I03, LAS07

Strategy 3.2.4: Maintain and support one technical staff member per 350 computers.

State: Original

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, District Administrators

Evidence: Decreased down-time, faster response to problems.

Comments:

LRPT Correlates: EP01, EP02, EP03, EP04, I02, LAS07

Goal 4: The district will reach the Target Tech level in all areas on the Texas School Technology and Readiness (STaR) chart.

Objective 4.1: The district will improve in at least one area in each of the 4 major categories on the STaR chart.

Budget for this objective: \$100,000.00

LRPT Category: Educator Preparation and Development

E-Rate Correlates: ER01 ER02



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

Strategy 4.1.1: Regular weekly technology use for integrated curriculum activities utilizing various instructional settings.

State: Original

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Technology Support Staff, Campus Administrator

Evidence: Lesson plans indicating integrated activities.

Comments:

LRPT Correlates: EP01, EP02, EP03, EP04, EP05, EP07, EP08, EP09, I01, I02, I04, I05, I06, I07, I08, LAS01, LAS02, LAS07, TL01, TL02, TL05, TL06, TL07, TL09, TL10, TL11, TL14, TL15, TL16

Strategy 4.1.2: Provide incentives for all professional staff members to participate in training related to the integration of technology in instructional programs.

State: Original

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, Technology Support Staff, Campus Administrator

Evidence: Attendance and achievement records, portfolio folders that contain completed multimedia, web page, and desktop publishing.

Comments:

LRPT Correlates: EP01, EP03, EP04, EP05, EP06, EP07, EP08, I01, I02, I03, I05, I08, LAS01, LAS10, TL10, TL11, TL14, TL15, TL16

Strategy 4.1.3: Survey teachers to determine SBEC proficiency level.

State: Original

Status: In Progress

Timeline: 2017-2020

Person(s) Responsible: Technology Director, District Administrators, Campus Administrators

Evidence: Twenty percent growth of overall staff SBEC proficiency level.

Comments:

LRPT Correlates: EP01, EP03, EP05, EP06, EP07, EP08, EP09, I01, I02, I07, I08, LAS07, TL04, TL06, TL07, TL10, TL11, TL14, TL15, 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 2017

- Telecom cost: \$50,000.00
 - Telecom source: Local Funds, E-Rate
- Materials cost: \$90,000.00
 - Materials source: Local Funds, Federal Grants
- Equipment cost: \$400,000.00



- Equipment source: Local Funds, Federal Grants
- Maintenance cost: \$100,000.00
 - Maintenance source: Local Funds, Federal Grants
- Staff development cost: \$100,000.00
 - Staff development source: Local Funds, Title II- Part D, Federal Grants
- Miscellaneous cost: \$30,000.00
 - Miscellaneous source: Local Funds
- Total: \$770,000.00

Budget for year 2018

- Telecom cost: \$50,000.00
 - Telecom source: Local Funds, E-Rate
- Materials cost: \$100,000.00
 - Materials source: Local Funds
- Equipment cost: \$350,000.00
 - Equipment source: Local Funds, Federal Grants
- Maintenance cost: \$100,000.00
 - Maintenance source: Local Funds
- Staff development cost: \$100,000.00
 - Staff development source: Local Funds, Title II- Part D, Federal Grants
- Miscellaneous cost: \$30,000.00
 - Miscellaneous source: Local Funds
- Total: 730,000.00

Budget for year 2019

- Telecom cost: \$50,000.00
 - Telecom source: Local Funds, E-Rate
- Materials cost: \$100,000.00
 - Materials source: Local Funds
- Equipment cost: \$350,000.00
 - Equipment source: Local Funds, Federal Grants
- Maintenance cost: \$100,000.00
 - Maintenance source: Local Funds
- Staff development cost: \$100,000.00
 - Staff development source: Local Funds, Title II- Part D
- Miscellaneous cost: \$30,000.00
 - Miscellaneous source: Local Funds
- Total: 730,000.00

EVALUATION

Evaluation Process:

The process that will be used to monitor and document progress made in implementing the plan may include: staff and student surveys, checklists, observations, peer reviews, PDAS evaluations by principals, teacher self-reports, criterion rubrics, and one-to-one mentoring. Student technology proficiency evaluations will be conducted by BISD staff at every campus from Kindergarten to High School with years 6, 8, and 12 being the benchmark years. Staff technology



proficiency evaluations will be conducted by Campus Administrators at every campus.

Evaluation Method:

Evaluation of the Technology Plan will be a systematic ongoing process. All aspects of the Plan will be evaluated formally four times each year: March, June, September, December

The Technology Advisory Committee will be responsible for the ongoing evaluation of this plan. The intention of the evaluation will be to make decisions on the impact that technology has on the learning process for all students. A report may be given to the Superintendent and the Board of Trustees after each formal evaluation occurs or on a yearly basis.

Brownwood ISD's STaR Chart results for each campus will be used to help Brownwood ISD assess its progress toward meeting the goals of the Long Range Plan for Technology.

Other methods used for evaluation will include:

- Surveys of the staff conducted twice yearly in regards to their use of technology in the classroom.
- Informal interviews conducted once a semester by the campus Technology Advisory Committee representative.
- Records of staff member participation in technology training monitored by sign-in sheets and professional development records.
- Integration of training into the classroom as measured by lesson plans and number and type of technology and distance learning projects.
- Monitoring and documentation of community access to technology resources and information on the campuses and on the web site.
- Monitoring and documentation of community involvement.
- Yearly inventory of hardware and software.
- Support and maintenance of technology as documented by technical support records.

APPENDIX

Attachment item A:

District Website

- Web site: <http://www.brownwoodisd.org>

Attachment item B:

TxConnect Parent Connection Site

- Web site: <https://brownwood.tx.txeis15.net/txconnect/Login.aspx>

Attachment item C:

Online Curriculum Management System for Brownwood ISD

Web site: <http://www.brownwoodisd.org/cms>