

Hondo ISD Technology Plan

2019-2020

A'Lann Truelock
Superintendent
ESC Region – 20
Hondo, TX 78861
County District Number 163904
4 campuses
1915 Students

Number of Campuses with High-Speed Broadband Internet Access that meets the current FCC target	4
Percentage of Campuses with High-Speed Broadband Internet Access that meets the current FCC target	100.00%
Number of Classrooms with WiFi Access	170
Percentage of Classrooms with WiFi Access	100.00%
Computing Device/Student Ratio (include Computers and Tablets, but not cell phones)	2 student(s) for every computing device
Computing Device/Teacher Ratio (include Computers and Tablets, but not cell phones)	1 teacher(s) for every computing device
CIPA Compliance	CIPA compliance was certified by the district on 12/01/2011. Hondo ISD held required public hearing on internet safety policy June 22, 2011 in conjunction with the District Site-based Committee meeting. The Board of Trustees adopted the policy on May 16, 2011.

Plan Introduction

Years included in plan 2020-2021

Number of years covered by plan: 1

Does the district file Erate? Yes

Billed Entity number 141774

Is district filing for Category 1 services this funding year: yes

Is district filing for category 2 services this funding year: yes

Technology Planning Committee

Mary Jo Peters - Director of Technology

Carol Schmidt- District Tech Support

Laura Graff -- Technology Facilitator, Hondo High School & Meyer Elementary School

Yvonne Rivera-Technology Facilitator, McDowell Middle School & Woolls Intermediate School

Tim Graff – Curriculum Specialist, Woolls Intermediate School

Tracy Tapia – Assistant Principal, Woolls Intermediate School

Misty Ptasnik – Principal, Meyer Elementary School

Yvonne Rivera -- Technology Facilitator, McDowell Middle School and Woolls Intermediate School

Chad Kailipaka -- Technology Applications Teacher, Hondo High School

Executive Summary

HONDO 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 advanced technology to improve the academic achievement, including technology literacy, of all students of rigorous curriculum standards and the development of critical thinking skills. Such skills are essential for academic and workplace success and build the capacity of all teachers to integrate technology effectively into curriculum and instruction.

Infrastructure. The plan will illustrate how the district will continue to provide the necessary upgrades as well as computer and people resources to make the connectivity become a viable learning tool for Hondo students. With the FCC recommendations of bandwidth per student, the district has upgraded the WAN to accommodate additional bandwidth to all campuses. Using Erate funding, we were able to replace the 20-year old single mode fiber to the campuses. In addressing the needs of Covid-19, the need to move to a 1:1 ratio for students is even more pressing. We will also review the wireless infrastructure to accommodate the increase traffic. The district has linked to the ESC20 Fiber20 fiber ring which provides 10 GB connection.

Teacher Preparation and Development. The district has identified staff development as a key element in making the infrastructure work for the education of our students. Many teachers have mastered basic computer skills and the focus over the next years will be to integrate technology into the curriculum since the classrooms have the technology available. The district is implementing the Canvas Learning Management System and all teachers are training in remote learning and developing consistent modules that cover the TEKS and can be used for students on-campus or remotely.

Teaching and Learning. As part of the teacher preparation program, teachers will receive support and strategies needed to integrate technology. Documentation of student work and teachers' best practices will be ongoing. Learning opportunities and resources for the students, staff development opportunities for teacher outreach programs utilizing distance learning will be available. Due to the pandemic, the district has moved to the Canvas Learning management system to provide instruction for students whether they are on site or remote.

Leadership, Administration and Instructional Support. The district will provide administrative support for technology through continued membership in area consortia designed to maximize technology purchases/ training for the dollar. Viable communications tools will provide up-to-date information and feedback. Curriculum and data monitor tools ensure that the teachers have information available to make effective instructional decisions and communicate with all stakeholders.

This plan is based on information drawn from many sources including: A review of the literature to identify best practices, a survey of school site hardware and instructional media, surveys of teachers including Clarity and Speak Up. The plan stresses the importance of ongoing and sustained staff development in the integration of technology into the curriculum for teachers, principals, administrators, and school library media personnel to further the effective use of technology in the classroom or library media center.

Needs Assessment

Assessment Process:

Comprehensive needs assessment utilizing Clarity & Speak Up Survey data, interviews, and inventories was conducted to analyze the current status of technology in the district and determine future needs. Items analyzed included: infrastructure, hardware, software, programs, courses, student achievement, technology resources, staff development, and technical support. Findings from this needs analysis are as follows.

The following technology is currently in place 2019-20:

District-Wide

Direct connection to the Internet via ATT Managed Internet Service (expanded to 10 GB June 2020).
District servers and SAN in place providing district information and student work. Written policies in place on responsible use of the Internet, World Wide Web content, social media, and district network
Gigabit switch technology at all network closets levels.
Wireless network to provide service for saturated areas.
ClassLink – Single Sign On Solution
Automated cafeteria system
Library Automated system
Family Access program for parent portal tied to SIS Skyward
School Messenger -- automated emergency calling program
Online Curriculum Management and data disaggregation tool system (Eduphoria)
Asset Management system
Hosted District and campus websites to communicate with all stakeholders
Google Apps for Education access for all students and staff

HONDO High School

Direct connection to the Internet via fiber to HS core and MIS.
4 drops per classroom
Available computer labs: 1 BCIS lab1, technology applications lab, credit recovery, CTE, library and multiuse lab available for signup, multiple windows tablet, ipad and chromebook carts
Networked printers/copiers
Electronic gradebook and attendance reporting.
Student Access program for student portal tied to SIS Skyward
Interactive Whiteboards or Panels in all core subject classrooms
Peripherals such as document cameras, projectors, scanners, cameras, science probeware, graphing calculators
Digital IP based surveillance system for safety and security

McDowell Middle School

Direct connection to the Internet via single mode fiber to HS core. (New fiber installed June 2020)
4 drops per classroom
Computer labs: computer literacy, multiuse labs, library lab, chromebook carts
Networked printers/copiers
Electronic gradebook and attendance reporting.
Presentation tools in every classroom Interactive whiteboards/panels in all core (math, science, social studies & ELA) classrooms
Peripherals such as document cameras, scanners, digital flip and still cameras
Digital IP-based surveillance camera system
Automated door access system in office/library areas

Woolfs Intermediate School

Direct connection to the Internet via fiber to HS core. (New fiber installed June 2020)
5-6 network drops in every classroom.
One networked computer lab
Mobile devices available for all grade levels in multiple platforms -- iOS, Chrome, and Win8
Electronic gradebook reporting
www.learning.com Technology Applications Curriculum
Networked printers/copiers
Accelerated Reading/ Star Reading testing
Interactive Whiteboards or Panels at in all classrooms

Peripherals such as document cameras, scanners, cameras
Videoconferencing available through Jabber connections
Digital surveillance camera system

Meyer Elementary

Direct connection to the Internet via fiber to HS core. (New fiber installed June 2020)
4 network drops in every classroom.
Two networked computer labs
Technology Applications curriculum (www.learning.com)
Mobile technology for instruction in classrooms in multiple platforms -- iOS, chrome and Win10
Interactive whiteboard with mounted projector or Interactive panel systems in all classrooms
Flip cameras and ipads
Network printers/copiers
Digital IP-based surveillance camera system
Peripherals such as scanners, & digital cameras
Videoconferencing available through Jabber connections
Automated door access system in office area

Telecommunications Services

IP telephony system with unified messaging provides telecommunications system throughout the district. Purchased and installed with local funds. Other telecommunications services needed include cellular phone service for key instructional personnel who support classroom through administration and technology.

The latest inventory of current workstations available for student use in HONDO ISD as of January 2019 lists only current, non-obsolete classroom/student computers & mobile devices for instruction. Hondo High School has 734 computers/mobile devices classified as "current" McDowell Middle School 371 current devices. Woolls Intermediate School has 334 current devices. Meyer Elementary School has 355 current devices.

Technology Needs for 2020-21:

Staff Development Needs

Survey of teacher technology skills indicate that, while many teachers were comfortable enough with the technology in their productivity and comfortable in good teaching practices, a higher level of integration should be a district level goal. The data from the Clarity survey Fall 2017 indicates that there is work to be done in the 4Cs -- collaboration, communications, creativity and critical thinking.

It is a priority to improve teaching and learning and educator preparation and development through a consistent, thoroughly conceived staff development plan and assessment process. Staff development process will focus on the technology tools that will enhance learning through the Canvas platform and delivery of content to remote and on-campus learners in response to pandemic learning requirements.

Infrastructure Needs

Efforts will continue to improve the district 1.5:1 ratio of students to current computers. Upgrade of fiber WAN to accommodate expanded bandwidth. The core equipment for campus MDF will be upgraded to provide 10 GB capacity. The district focus will be to have enough mobile devices to move toward a 1:1 solution to make sure that learning continues even during closures that may occur during the pandemic following TEA guidelines.

Goals Objectives and Strategies

GOAL 1: Teaching and Learning -- Improve academic achievement, including technology literacy of all students, through effective integration of technology into curricula and instruction.

OBJECTIVE 1.1: The district will strive to have 100 percent of students achieving technology literacy and academic success.

Strategies		Timeline	Evidence
1.1.1	Provide instruction in core subjects and non-core subjects with incorporated technology that improves instruction and helps address various learning styles and student populations to provide students what they need for success.		Lesson Plans Implementation of lessons student products state assessments
1.1.2	Use software programs such as, but not limited to, Eduphoria Aware to analyze strengths and weaknesses of students to promote learning success.		Development of materials District and classroom Assessment Results State Assessment results
1.1.3	Continue common assessments for Grades 2-11 for core curriculum areas; investigate methods to effectively measure progress on TA-TEKS at various grade levels.		Completed Benchmarks Test results Data Available through Aware
1.1.4	Support Response to Intervention (RTI) with appropriate resources to achieve learning objectives for students at all grade levels as needed with online resources		Number of students supported with RTI Improved scores on state assessments
1.1.5	Improve instruction by providing teachers with electronic tools such as the CANVAS LMS, Eduphoria, Discovery Education, Google Classroom and access to TEKS Resource System curriculum to allow for better collaborative planning and curriculum and support instruction on-campus and remote		Teacher collaboration Robust, consistent curriculum at all grade levels in all subjects Improved Student Scores
1.1.6	Continue to utilize Distance Learning as appropriate for high school courses and virtual field trips at all grade levels		Number of courses offered by DL Number of VC virtual field trips and attendance Records
1.1.7	Continue to develop K-8 scope and sequence of technology applications skills aligned to TA-TEKS with appropriate benchmarks, pending TEA revision of TA-TEKS		Scope and sequence developed

OBJECTIVE 1.2: 100 percent of facilities will increase accessibility and innovation whenever appropriate to provide adequate instructional support and technologies in sufficient quantity and quality to meet the educational needs of the district.

Strategies		Timeline	Evidence
1.2.1	Expand Technology hardware access by adding Mobile devices, workstations and assistive Technology		Installation of equipment and usage
1.2.2	Provide continuing professional development for teachers that promotes active learning with technology for remote and on-campus learning including Google meets, Zoom, CANVAS tools		Staff Development Attendance records Improved records on Teacher technology surveys Student Technology proficiency
1.2.3	Ensure the campus libraries sustain a technology-rich environment with hardware, software and online resources to enhance student learning, incorporating them as part of the remote and on-campus learning		Subscriptions to resources Resource Usage reports Equipment installed
1.2.4	Encourage development of the 4Cs -- collaboration, communications, creativity and critical thinking -- for students and teachers through applicable technology resources.		Lesson plans Student projects

Goal 2 -- Promote growth in educators' effectiveness in integrating technology into the curricula, achieving proficiency in SBEC Technology Standards, and transforming teaching practices by promoting student-centered, technology-rich learning.

OBJECTIVE 2.1: Provide variety of professional development opportunities to improve instruction for all students through effective models and alignment of content and resources.

Strategies		Timeline	Evidence
2.1.1	Expand offerings of professional development opportunities for teachers, librarians and support staff that focus on preparing teachers to effectively integrate appropriate technology into instruction-		Staff Development Attendance records Improved scores on Clarity Survey
2.1.2	Instructional technologists work hand-in-hand with curriculum specialists to provide continuing professional development for teachers and staff that models and promotes active learning with appropriate technology.		Staff Development Attendance records Improved scores on teacher surveys
2.1.3	Continue to offer just-in-time Professional Development support to teachers and librarians utilizing the campus facilitators, Curriculum and Instruction Specialists, and Tech Apps teachers with after-school technology training (as needed) as well as online resources.		Course/meeting attendance records Teacher survey

Objective 2.2 -- 100 percent of instructional staff in grades PK-12 will be trained and encouraged to integrate technology in curriculum as appropriate

Strategies		Timeline	Evidence
2.2.1	Continue offerings of professional development for teachers, staff, and librarians that focus on preparing teachers to integrate technology into subject matter		Staff Development Attendance records Improved scores on teacher surveys
2.2.2	Teachers trained to use emerging technologies including, but not limited to, mobile devices, streaming video, online library resources, and additional software for instruction		Training attendance records Increased use of emerging Technologies
2.2.3	Distance Learning opportunities are encouraged whenever possible, including connections between campuses and with higher ed resources and can include online courses/resources as well as webinars and videoconferencing.		Records of participation in distance courses/webinars
2.2.4	Investigate possibility of establishing a district technology training lab to facilitate implementation of technology through effective professional development.		Plans for facilities Facilities open

2.2.5	Utilize existing resources to help teachers document technology proficiencies.		Eduphoria Workshop/Strive

Goal 3 -- Improve Schools and student achievement through effective leadership and planning incorporating technology tools for data management and communications.

Objective 3.1 -- 100 percent of schools will utilize technology to securely access and maintain student records.

Strategies		Timeline	Evidence
3.1.1	Campuses will analyze data to set campus goals and make decisions to improve student achievement.		Data collection and disaggregation Campus Plans
3.1.2	Campus personnel will utilize software systems to maintain student grades and attendance to generate accurate reports for student, parent, and teacher use.		Data in gradebook/attendance records
3.1.3	Continue secure online access to student information for families and secondary students to promote self-sufficiency and communications between home and school.		Student Information System Usage records
3.1.4	Continue district intranet and cloud resources to give staff access to digital resources in secure environment as needed.		Information posted and available
3.1.5	Verify and approve Privacy policy for resources including, but not limited to, online resources		Privacy Policies Reviewed.

Objective 3.3 -- 100 percent of staff will be encouraged to utilize electronically delivered information to communicate with staff, parents and concerned community members, as appropriate.

Strategies		Timeline	Evidence
3.3.1	All staff will utilize a variety of means to communicate student progress to families, including, but not limited to, voice and email communications, Student Information System, newsletters, social media, and class portals.		Documentation of parent contacts Feedback on websites
3.3.2	The district website will be maintained and expanded with information for community members, including campus websites, library links, current employment opportunities, required postings, curriculum, making every effort to keep website accessible for all users including users with disabilities.		Information on website Documentation on visits to site
3.3.6	Utilize communications systems including emergency calling/texting service, social media communications tools to connect with parents, students and community		Policy developed Resources available

Objective 3.4 -- Develop and expand partnerships with the community to expand the educational opportunities of students as well people in the community.

Strategies		Timeline	Evidence
3.4.1	Continue to participate in area consortia such as netVision20 to improve technology resources by leveraging resources at the regional level.		Membership
3.4.2	Continue to work with local junior college and online higher ed resources to offer students dual-credit college courses		Courses offered at district locations
3.4.3	Encourage community understanding of technology usage in classrooms and at home through events such as Tech this Out		Event participation

Objective 3.5 -- The district will leverage technology to improve school record-keeping systems and school safety.

Strategies		Timeline	Evidence
3.5.1	Maintain Disaster Recovery Plan to be sure it addresses the security of student/personnel data and the viability of the school network resources as required by law		Policy in place
3.5.2	Surveillance cameras systems will be maintained for student safety and protection of school property.		Installation of cameras and equipment Monitoring data
3.5.3	The district will maintain a district-wide asset management system for technology as well as other inventoried items.		Equipment barcoded and inventoried in new system
3.5.6	Promote awareness of data security in district and in personal life with CyberSecurity training as required by law		Training complete

Goal 4 -- To ensure that all students and teachers have increased access to technology while maintaining network integrity and enforcing a policy of internet safety

Objective 4.1 -- 100 percent of the LAN/WAN structure will be optimized to meet the needs of all aspects of the school district enterprise

Strategies		Timeline	Evidence
4.1.1	The district will upgrade a district-owned fiber WAN connecting each campus site to internet provider to provide enough bandwidth for campuses and central offices.	2019-20	Operation of existing network
4.1.2	Monitor usage and upgrade network infrastructure including wireless and power as needed to increase speed and replace obsolete equipment.		Installation of equipment Improved connectivity
4.1.3	Maintain the standardized IP telephony system with integrated messages on every campus in the district. (new equipment installed June 2020)		Installation and successful use of equipment and software

Objective 4.2 --100 percent online connectivity will be maintained from every location in the district

Strategies		Timeline	Evidence
4.2.1	District will provide Internet access for workstations as needed for instruction and effective employee productivity.		Connectivity maintained
4.2.2	Maintain district web-based services including but not limited to district/campus websites and web access to email, employee personnel information and student data.		Availability of resources
4.2.3	Maintain security measures including anti-virus, anti-spam, intrusion detections, secure network credentials, and backup systems to ensure network integrity and availability.		Network secure

Objective 4.3 -- 100 percent of campuses will continue to work toward optimal user/computing device ratio

Strategies		Timeline	Evidence
4.3.1	District will strive for a minimum student to computing device ratio of 2:1 with a student-computer lab ratio of 1:1 when applicable. Purchase mobile devices to move to 1:1 to promote access with remote learner and on-campus learners		Installation and use of computers/devices by students

4.3.2	District will maintain teacher to computer ratio of 1:1 availability, making the stations dedicated when possible and necessary.		Inventory of workstations/laptops
4.3.3	Continue obsolescence plan to maximize the usage of equipment and provide adequate devices for tasks.		Plan developed, Replacement equipment purchased and obsolete equipment retired
4.3.4	Allow students and staff to bring personal devices with safety measures to protect the network and leveraging the availability of resources for users.		appropriate use of personal devices

Evaluation

Evaluation Process:

The evaluation of the elements of the plan will be ongoing as teaching and learning strategies utilize the technology to reach the educational goals of the district. The plan itself will be evaluated and updated as needed by the technology committee. The technology committee will meet regularly to monitor the progress of the programs.

Evaluation Method:

*In addition to the campus survey, the Technology Plan contains evaluations and assessment instruments that are measurable and directly related to the project objectives and activities

*Records of staff member participation in technology training monitored by sign-in sheets and teacher 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

*Staff Development activity will be surveys and proficiency assessments/portfolios.

*The Director of Technology and campus facilitators will monitor activities, timeliness, and assessment instruments.

*Student passing rate on State Assessments for all sub-populations.

*Infrastructure additions and upgrades will be evaluated by timeliness and effectiveness of installation and configuration.

*Installation and utilization of emerging technology will be monitored by placement and usage.

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