

# **GISD 2021-2022 TECHNOLOGY PLAN: OVERVIEW**

## *ABOUT GISD:*

SUPERINTENDENT: DR. JEREMY GLENN

ESC REGION	11
CITY, STATE, ZIP	GRANBURY, TEXAS 76048
PHONE	(817) 408-4000
COUNTY DISTRICT NUMBER	111901
NUMBER OF CAMPUSES	10
TOTAL STUDENT ENROLLMENT	7442
PERCENT ECONOMICALLY DISADVANTAGED	56.9%
TECHNOLOGY EXPENDITURES	\$2,580,703



## SUMMARY:

Granbury ISD strives for personalized, flexible, empowered learning based on the individual needs of each student. Therefore, GISD's Technology Plan emphasizes equitable and appropriate access to technology for all students in order for each student to maximize potential, foster creativity, enhance collaboration, communicate effectively, think critically, and demonstrate learning in a variety of creative, engaging methods. The plan also strives to empower and prepare each teacher to plan purposeful lessons that incorporate technology in such a way that inspires and motivates students to question their understandings, collaborate with others with differing points of view, attack and solve problems creatively and critically, and find themselves prepared for an ever changing career field. The foundation of successful technology implementation is laid on a safe and secure network consisting of reliable infrastructure, state of the art equipment, high-speed Internet connectivity, and a comprehensive cybersecurity plan to protect the privacy and security of all GISD students and staff members. The plan also reflects on the impacts of unique challenges initiated by the COVID-19 pandemic and the grace with which GISD teachers, students, staff, and families addressed, faced, and overcome these challenges. GISD will continue to provide support in all content areas and departments in order to foster an environment that provides balanced, innovative, authentic learning opportunities for all students.

## FUNDING SOURCES:

Funding sources included in the technology plan include local funds from campus and department budgets, federal funds, grant funds such as GEF, instructional materials allotment, and other program specific funds.

## NEEDS ASSESSMENT:

### ASSESSMENT PROCESS

A comprehensive needs assessment utilizing inventories, campus improvement plans, G2025, usage reports, district surveys, and BrightBytes Data is used to analyze the current state of technology in the district and determine future needs. Findings from items analyzed are reflected in our Classroom, Access, Skills, and Environment (CASE) report from collected parent, student, and teacher data. In addition to CASE data, Modern Learning Survey data provides insight to GISD instruction and technology in a remote learning environment as well as provide more natural language questions to gather a Social Emotional perspective toward technology implementation in the current era of virtual learning. Overarchingly, feedback provided says that GISD technology use and application impacted by COVID and remote learning is ever changing, is evenly distributed with little standard deviation, and is in favor of more



devices for distribution. In this report, findings will be reflected by three areas: Clarity BrightBytes CASE data from March 2020, Clarity Modern Learning Survey data from November 2020, and the Texas Long Range Plan for Technology.

## ASSESSMENT FINDINGS

This year provided some very unique challenges that have given GISD teachers, students, staff, and families a different perspective on the use of technology in education. Traditionally, we assess using BrightBytes surveys each spring and use that data to drive the next year's technology plan. We closed our 2019-2020 survey March 9, 2020, and never returned to face-to-face school for that school year. When we launched the 2020-2021 school year, we had teachers teaching and students learning in both face-to-face and virtual environments. In an effort to make more informed decisions, analyze changed instructional trends, and target variables leading to student success, GISD technology reassessed teachers, campus administrators, students, and families in the fall of 2020 using Clarity's Modern Learning Survey. This survey provided a lens into the changed landscape of technology implementation, beliefs, access, and impact and will drive decisions moving forward. There are five distinct areas of focus of the GISD technology department reflected in this plan: Network and Infrastructure, Devices and Device Distribution, Instruction, Professional Development, Compliance.

An optimal infrastructure is key to successful implementation of any technology. All stakeholders must have confidence in the network's reliability and security. GISD will continue to ensure appropriate resources are in place to support and maintain networks and equipment. GISD will continue to maintain existing support contracts and lease agreements. Access is key for parents, students, and staff. While data supports timely access to information and 24 hour or less turnaround time on issues, continuous evaluation is required to ensure all needs are being met. Changes in curriculum needs, such as online testing, online textbooks and other resources require additions and updates to the district's software, servers, network, and telephone equipment. Flexible learning environments require continued density of the wireless network to support learning in every area, including outdoor learning spaces. Access to quality, user friendly learning management systems like Google Classroom and SeeSaw are vital to the success of both face-to-face and remote learners and families and provide access to GISD curriculum inside and outside of the brick and mortar classroom.

Granbury utilizes various software to meet both administrative and educational needs. Skyward is used as both our financial software and our student information systems. The district utilizes an IP telephony communications network. Schoolwires, along with ESC 11, hosts the GISD website which offers quality, current information to staff, students, and the community. The GISD website is maintained by the Public Information Officer. An acceptable use policy (AUP) is in place for both staff and students to ensure adherence to the highest standards of technology use. GISD will continue to follow and abide by all legislation.

Technology hardware is purchased via a centralized purchasing process to ensure standardization of all equipment. All stakeholders will work together to determine standards for devices and viable replacement schedules. GISD will continuously investigate the latest



advancements in technology to ensure all students are equipped to succeed. Hardware includes model classroom equipment, access points, switches, voice gateways, servers, storage, and student and teacher devices. GISD currently supports a 10GB wide-area-network to all campuses. A state of the art network operations center (NOC) serves the needs of the district. The NOC utilizes a state of the art hot aisle containment system and a generator to maintain connectivity at all times. An offsite disaster recovery solution is in place. The district provides 11GB of internet bandwidth to support the educational needs and demands of our digital resources.

## VISION STATEMENT

All students are equipped with the skills to be inspired, contributing citizens excelling in any chosen endeavor within a dynamic global society.

## MISSION STATEMENT

Our mission, in collaboration with unique partnerships, is to provide a rigorous academic curriculum along with enriching and individualized opportunities empowering every student to compete in an ever-changing world.

## G2025 TECHNOLOGY GOAL STATEMENT

We will maintain an optimal infrastructure that supports the appropriate number of devices to engage students in innovative, balanced, ethical, authentic learning opportunities and the training necessary to implement effectively.

- **Objective 1: GISD NETWORK**

*We will provide and maintain an optimal infrastructure that supports the appropriate number of devices to engage students in innovative, balanced, ethical, authentic learning opportunities.*

- o Strategy 1: Maintain an infrastructure that facilitates communication, instruction, and other educational services
- o Strategy 2: Ensure appropriate resources are in place to support and maintain networks and equipment
- o Strategy 3: Increase network access in all learning spaces
- o Strategy 4: Continue the implementation of a cybersecurity policy to secure the district cyberinfrastructure against cyberattacks and other cybersecurity incidents, determine cybersecurity risk, and implement mitigation planning
- o Strategy 5: Determine appropriate staffing to support an ever growing complex cybersecurity plan, technology implementation in the classroom, and increasing number of teacher and student devices



- **Objective 2 DEVICES and DEVICE DISTRIBUTION**

*We will work with all stakeholders to determine the appropriate sustainable devices for each grade level to support balanced, innovative, engaging learning opportunities for all students.*

- o Strategy 1: Establish a committee that represents all involved stakeholders to determine the appropriate device for each grade level and content as determined by GISD initiatives
- o Strategy 2: Secure financing to maintain an appropriate replacement schedule

- **Objective 3 INSTRUCTION**

*Students will be exposed to an array of innovative, authentic learning opportunities empowering them to demonstrate their learning in a variety of creative, engaging methods.*

- o Strategy 1: Empower students to utilize technology to think collaboratively and critically to solve real world problems
- o Strategy 2: Through effective planning, empower teachers to develop engaging opportunities for students to take their learning beyond the walls of their classroom
- o Strategy 3: Foster new educational challenges for students through genius hour, hour of code, enrichment clubs, new courses, and other learning opportunities
- o Strategy 4: Provide an assortment of plugged and unplugged opportunities for students to demonstrate their learning
- o Strategy 5: Embed digital citizenship into daily learning

- **Objective 4 PROFESSIONAL DEVELOPMENT**

*We will provide quality training opportunities for staff that support innovative, balanced, ethical, authentic learning for students. (Training will be provided face-to-face, online, on-demand, in the classroom, and by request.)*

- o Strategy 1: Empower teachers to bridge the belief-to-practice divide
- o Strategy 2: Foster 4C (communication, collaboration, creativity, and critical thinking) aligned professional development
- o Strategy 3: Provide targeted professional development aiming at differentiating instruction
- o Strategy 4: Provide learning opportunities for teachers to utilize technology equitably for both face-to-face and virtual learning



- **Objective 5 COMPLIANCE**

*Establish procedures to meet all state and federal regulations*

- o Strategy 1: Employ technology as a tool to facilitate data-driven decision making, access and maintain necessary records, and streamline reporting
- o Strategy 2: Mandate district-wide cybersecurity training program that focuses on forming information security habits and procedures that protect information resources, and teach best practices for detecting, assessing, reporting, and addressing information security threats.



**OBJECTIVE 1: GISD NETWORK**

*We will provide and maintain an optimal infrastructure that supports the appropriate number of devices to engage students in innovative, balanced, ethical, authentic learning opportunities.*

<p><b>Supporting CASE/ Modern Learning Data Variables</b></p>	<p><b>CLASSROOM</b></p> <ul style="list-style-type: none"> <li>● 92% of students report frequency of computer use in the classroom at least once per week</li> <li>● 79% of students report daily computer use in the classroom</li> <li>● 96% of students report having access to a computer at school when they need one</li> </ul> <p><b>ACCESS</b></p> <ul style="list-style-type: none"> <li>● 70% of teachers report that the quality of internet speed at school is excellent or above average, 25% report it is average</li> <li>● 75% of teachers report that the quality of support for problems disrupting instruction is above average or excellent</li> </ul> <p><b>SKILLS</b></p> <ul style="list-style-type: none"> <li>● 550 GISD educators had direct instruction in technology integration           <ul style="list-style-type: none"> <li>○ First ever virtual and face-to-face #Teach4Gr8ness</li> <li>○ Attendance for presenters and attendees was split in half</li> </ul> </li> </ul> <p><b>ENVIRONMENT</b></p> <p>752 wireless access points are available for connectivity            Staff &amp; student devices include 7326 Chromebooks, 2554 iPads, and 1130 Chromeboxes in GISD</p>
<p><b>Texas Long Range Plan for Technology 2018-2023</b></p>	
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Safety and Security</li> </ul>	



- Reliable Infrastructure

## STRATEGY 1

Maintain infrastructure that facilitates communication, instruction, and other educational services

*The state recommends a 10GB WAN and at least 1GB internet access per 1000 students. In GISD, a 10GB WAN is in place for all campuses and 11GB of internet is available across GISD. Construction of GISD owned, leased lit fiber installation to all GISD campuses and buildings (with the exemption of Mambrino) is scheduled to be finished district wide by June of 2021. All network equipment is maintained according to industry standards. The network operations center (NOC) is an integral part of this process.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>• Personalized, Flexible, Empowered Learning</li> <li>• Equitable Access</li> <li>• Safety and Security</li> <li>• Reliable Infrastructure</li> </ul>	<ul style="list-style-type: none"> <li>• Director of Technology</li> <li>• Senior Network Administrator</li> </ul>	June 2021-June 2022	\$ 603,160 Funding sources include eRate funds and the technology budget <ul style="list-style-type: none"> <li>• All necessary forms on file with USAC</li> <li>• Valid support contracts</li> <li>• Industry standard equipment</li> <li>• Necessary Storage Environment</li> <li>• Internet filtering software in place according to rules and regulations</li> <li>• Valid ISDN Prime Interfaces with DID</li> </ul>	<ul style="list-style-type: none"> <li>• Uninterrupted availability of necessary access to resources</li> <li>• Valid fiber optic lease contract</li> <li>• Valid internet service contracts with Zayo</li> <li>• Technology inventory</li> <li>• Network statistics</li> <li>• Valid telephone service contract</li> <li>• Partnership with ESC XI Internet Consortium</li> </ul>





## STRATEGY 2

Ensure appropriate resources are in place to support and maintain networks and equipment

*With the increased reliance on technology, it is imperative that GISD experience minimal downtime. To ensure this, GISD maintains valid support contracts for mission critical software and hardware. Battery-powered backups are in place in all racks, as well as a generator in the network operations center (NOC). GISD also stays current on domain name registration, district-owned IP blocks, licensing for all software for both servers and end-user equipment. A disaster recovery solution is also in place, including hardware and software.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Safety and Security</li> <li>● Reliable Infrastructure</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Senior Network Administrator</li> </ul>	July 2021-June 2022	\$ 276,570 Funding sources include the technology budget <ul style="list-style-type: none"> <li>● SmartNet</li> <li>● Microsoft Licenses</li> <li>● ARIN registration</li> <li>● Extreme Contracts</li> <li>● UPS in place</li> <li>● Generator for NOC</li> <li>● Disaster Recovery Documentation</li> <li>● Infoblox</li> </ul>	<ul style="list-style-type: none"> <li>● Valid license agreements</li> <li>● Valid support contracts</li> <li>● Full access to both IPv4 &amp; IPv6 networks</li> <li>● Technology inventory</li> <li>● Network statistics</li> <li>● Content filtering software</li> <li>● Valid SSL Certificates</li> </ul>



### STRATEGY 3

Increase network access in all learning spaces

*GISD strives to provide access to technology in all learning spaces. Outdoor learning spaces and common areas are essential to the learning process. GISD also maintains and secures access points in all GISD buildings and each classroom.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Reliable Infrastructure</li> </ul>	Director of Technology	July 2021-June 2022	\$ 35,000 Funding source is the technology budget and C2 eRate funds <ul style="list-style-type: none"> <li>● Outdoor access points</li> <li>● Dense coverage in large common spaces</li> </ul>	<ul style="list-style-type: none"> <li>● Access in all learning spaces               <ul style="list-style-type: none"> <li>○ Classrooms</li> <li>○ Outdoor learning areas</li> <li>○ Large common areas</li> </ul> </li> <li>● Student HotSpots</li> </ul>



**STRATEGY 4**

Continue the implementation of a cybersecurity policy to secure district cyberinfrastructure against cyberattacks and other cybersecurity incidents, determine cybersecurity risk, and implement mitigation planning

*GISD must determine cyber security risk and implement mitigation planning. GISD must work to maintain a secure district cyberinfrastructure against cyberattacks and other cybersecurity incidents. Each district must designate a cybersecurity coordinator to serve as the liaison between district and TEA. GISD must be prepared for any and all attacks on our network; as cybercriminals become more cunning, GISD must implement top of the line cybersecurity software for threat detection and response.*

<ul style="list-style-type: none"> <li>● Safety and Security</li> <li>● Reliable Infrastructure</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Network Administrators</li> </ul>	<p>July 2021-June 2022</p>	<p>\$ 393,000        Funding source is the technology budget</p> <ul style="list-style-type: none"> <li>● Adequate Firewall</li> <li>● Continuous Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>● Logs</li> <li>● Monitoring Stats and Software</li> <li>● Cybersecurity Liaison</li> <li>● Security plan</li> <li>● Incident Reports</li> </ul>
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**STRATEGY 5**

Determine appropriate staffing to support an ever growing complex cybersecurity plan, technology implementation in the classroom, and increasing number of teacher and student devices

*GISD technology department will need to procure an appropriate amount of staff necessary to support the increase in the number of teacher and student devices throughout the district as well as instructional coordinators to support effective teacher implementation to maximize authentic student learning. GISD will also need to support the increase of cybersecurity protections, software, and training to keep the district safe from a possible cybersecurity attack.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> </ul>	July 2021-June 2022	\$ -- No funding necessary to determine the appropriate number of employees. Local funds would be used if personnel increased.	<ul style="list-style-type: none"> <li>● Timely response to teacher/staff technology work orders</li> <li>● Instructional Technology Coordinators available to support teaching and learning</li> <li>● Cybersecurity Coordinator position to monitor and protect GISD network</li> <li>● Software needed to monitor and maintain reliable, safe network infrastructure</li> </ul>



**OBJECTIVE 2: DEVICES AND DEVICE DISTRIBUTION**

We will work with all stakeholders to **determine the appropriate sustainable devices for each grade level** to support balanced, innovative, engaging learning opportunities for all students.

<b>Supporting CASE/ Modern Learning Data Variables</b>	<p><b>CLASSROOM</b></p> <ul style="list-style-type: none"> <li>● 68% of teachers regularly administer digital or online assessments to the majority of their students</li> </ul> <p><b>ACCESS</b></p> <ul style="list-style-type: none"> <li>● In March of 2020           <ul style="list-style-type: none"> <li>○ 61% of teachers reported a one-to-one ratio of students to devices</li> <li>○ 76% of the time teachers were able to get devices when needed.</li> </ul> </li> </ul> <p><b>SKILLS</b></p> <ul style="list-style-type: none"> <li>● In March 2020,           <ul style="list-style-type: none"> <li>○ 30% of teachers reported they curate digital resources and tools at least weekly</li> </ul> </li> </ul> <p><b>ENVIRONMENT</b></p> <ul style="list-style-type: none"> <li>● According to inventory, all classroom teachers have access to a minimum of two devices. Those that have attended a #Teach4Gr8ness conference have a third device.</li> </ul>
	<p><b>MODERN LEARNING SURVEY</b></p> <ul style="list-style-type: none"> <li>● In November 2020.           <ul style="list-style-type: none"> <li>○ When asked they were able to access enough devices when needed, 39% of teachers and 15% of school leaders reported always and 38% of teachers and 70% of school leaders reported usually</li> </ul> </li> </ul>
<b>Texas Long Range Plan for Technology 2018-2023</b>	
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Reliable Infrastructure</li> <li>● Collaborative Leadership</li> </ul>	



## STRATEGY 1

Establish a committee that represents all involved stakeholders to determine the appropriate device for each grade level and content as determined by GISD initiatives.

*GISD works to ensure students are exposed to and have appropriate access to a variety of devices in order to select the most appropriate tool to accomplish the task at hand and completely demonstrate learning. As technology evolves and our district grows, we must continuously monitor and adjust available resources for all grade levels on a regular basis. This challenge is magnified by two large contributing factors; expiration and wear of current devices purchased by previous GISD bond monies, and the loss of devices due to mass distribution Spring 2020 during COVID-19 quarantine.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Reliable Infrastructure</li> <li>● Collaborative Leadership</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Instructional Technology</li> <li>● Campus Administration</li> <li>● Classroom Teachers</li> <li>● Students</li> <li>● Parents</li> <li>● School Board</li> </ul>	July 2021-June 2022	\$ --- No budget necessary for committee.	<ul style="list-style-type: none"> <li>● Feedback from students &amp; teachers</li> <li>● Usage statistics from all devices</li> <li>● Modern Learning Survey data</li> </ul>



## STRATEGY 2

Secure financing to maintain an appropriate replacement schedule

*In preparation for G2025, the GISD technology staff will need to prepare for and secure financing to replace student and teacher devices, as well as network components. The operating systems of the Chromebooks purchased with the 2013 bond will expire September 2021; this means any program, software, or testing platform that operates on an updated operating system will not be compatible with these devices.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Reliable Infrastructure</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Technology Department</li> </ul>	July 2021-June 2022	\$500,000 **Significant additional funding must be committed in order for GISD to maintain a 4-year replacement cycle for existing equipment and a larger investment is necessary to strive to become and maintain a 1:1 environment.**	<ul style="list-style-type: none"> <li>● Viable devices for all teachers</li> <li>● Timely replacement of outdated or damaged devices</li> <li>● Budget amount directly correlates to decisions made by committee of all stakeholders</li> </ul>



**OBJECTIVE 3:**

*Students will be exposed to an array of innovative, authentic learning opportunities empowering them to demonstrate their learning in a variety of creative, engaging methods.*

<p><b>Supporting CASE/ Modern Learning Data Variables</b></p>	<p><b>CLASSROOM</b></p> <ul style="list-style-type: none"> <li>● 41% of students reported they are asked to collaborate online with classmates at least weekly, but only 16% said the same about collaborating online with their teachers. 70% of students reported they are never asked to collaborate online with students at other schools</li> </ul>
	<p><b>ACCESS SKILLS</b></p> <ul style="list-style-type: none"> <li>● While 89% of our teachers utilize technology weekly to consume online content and collaborate online, only 33% of teachers utilize technology to think critically or create blogs, reviews, or participate in learning networks</li> </ul>
	<p><b>ENVIRONMENT</b></p> <ul style="list-style-type: none"> <li>● When students were asked if they agree with this statement, “Technology use in class can improve student learning,”           <ul style="list-style-type: none"> <li>○ 37% strongly agree</li> <li>○ 32% agree</li> <li>○ 23% are neutral</li> <li>○ 5% disagree</li> </ul> </li> </ul>
<p><b>Texas Long Range Plan for Technology 2018-2023</b></p>	
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Digital Citizenship</li> </ul>	





## STRATEGY 1

Empower students to utilize technology to think collaboratively and critically to solve real world problems

*GISD teachers must be equipped with the necessary skills in order to plan and provide authentic, real-world learning opportunities for students incorporating the 4Cs. These opportunities must be relevant, timely, and foster creativity, critical thinking, collaboration, and effective communication.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Digital Citizenship</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Instructional Technology</li> </ul>	July 2021-June 2022	\$ 7,500 Funding sources include the technology budget, the special education department budget, and the curriculum department budget <ul style="list-style-type: none"> <li>● Course selection</li> <li>● Technology resources available</li> </ul>	<ul style="list-style-type: none"> <li>● BrightBytes Data</li> <li>● PD Participation</li> <li>● Participation in 4th annual #Teach4Gr8ness Rally June 2021</li> <li>● Teaches lesson plans reflecting real world use of the 4Cs</li> </ul>



## STRATEGY 2

Through effective planning, develop engaging opportunities for students to take their learning beyond the walls of their classroom

*Technology allows students to grow exponentially through seeking experts outside of the school, city, and nation. Students are able to explore places they have never been and experience opportunities never before possible. GISD technology will model and secure opportunities for all teachers and students.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Digital Citizenship</li> <li>● Safety and Security</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Instructional Technology</li> </ul>	July 2021-June 2022	\$ 7,000 Funding sources include technology budget, special education budget, CTE budget, and curriculum department budget. <ul style="list-style-type: none"> <li>● Instructional Technology Coordinator's Schedule</li> </ul>	<ul style="list-style-type: none"> <li>● PD Participation</li> <li>● BrightBytes Data</li> <li>● Student Portfolios</li> <li>● Participation in #Teach4Gr8ness Rally</li> <li>● Attendance at B.L.I.S.S (Blended Learning in Scope and Sequence) training</li> </ul>



### STRATEGY 3

Foster new educational challenges for students through genius hour, hour of code, enrichment clubs, new courses, and other learning opportunities

*GISD will investigate and bring engaging learning challenges to teachers and students that foster independence and stimulate creative problem solving skills. New challenges will expand on opportunities such as genius hour, enrichment classes, coding challenges, and 20% time, in order to reach as many students as possible.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Digital Citizenship</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Instructional Technology</li> <li>● Curriculum Department</li> <li>● Campus Administration</li> <li>● Assistant Superintendent</li> <li>● Human Resources</li> </ul>	July 2021-June 2022	\$ 5,000 Funding sources include technology budget, CTE budget, and curriculum department budget. <ul style="list-style-type: none"> <li>● CTE courses offered at middle and high schools</li> <li>● Bridging the gap between Mambrino STEAM and middle school students</li> <li>● Instructional Technology Coordinator's Schedule</li> </ul>	<ul style="list-style-type: none"> <li>● PD Participation</li> <li>● BrightBytes Data</li> <li>● Student Engagement</li> <li>● Organized Centers in Classrooms</li> <li>● Classroom Visits</li> <li>● Participation in #Teach4Gr8ness Rally</li> <li>● Targeted Campus Strategies</li> <li>● Use of Learning Management Systems</li> </ul>



**STRATEGY 4**

Provide an assortment of plugged and unplugged opportunities for students to demonstrate their learning

*Empower students with the freedom to adapt learning to their own interests, abilities, and style in order to maintain engaged, motivated learners with a purpose and an authentic audience.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Instructional Technology</li> <li>● Campus Administration</li> <li>● Teachers</li> </ul>	July 2021-June 2022	\$ 6,500 Funding sources include technology budget, special education budget, CTE budget, campus budgets and curriculum department budget. <ul style="list-style-type: none"> <li>● Instructional Technology Coordinator's Schedule</li> </ul>	<ul style="list-style-type: none"> <li>● PD Participation</li> <li>● BrightBytes Data</li> <li>● Widespread usage of rubrics</li> <li>● Campus Enrichment/Genius Hour participation</li> </ul>



## STRATEGY 5

Embed digital citizenship into daily learning

*According to Senate Bill 11, “SBOE shall require each school district to incorporate instruction in digital citizenship into the district’s curriculum, including information regarding the potential criminal consequences of cyberbullying.”*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Digital Citizenship</li> <li>● Safety and Security</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Instructional Technology</li> <li>● Curriculum Department</li> <li>● Campus Administration</li> <li>● Campus Librarians</li> <li>● Classroom Teachers</li> </ul>	July 2021- June 2022	\$ 15,000 <ul style="list-style-type: none"> <li>● KnowBe4</li> <li>● G-Suite</li> <li>● Nearpod</li> <li>● Skyward</li> <li>● Instructional Technology Coordinator’s Schedule</li> </ul>	<ul style="list-style-type: none"> <li>● Teacher lesson plans</li> <li>● Student created content</li> <li>● Campus Discipline Data</li> <li>● KnowBe4 Data</li> <li>● NearPod/Common Sense Media Usage</li> <li>● Network Statistics</li> <li>● Schools of Character Information</li> </ul>



**OBJECTIVE 4:**

*We will provide quality training opportunities for staff that support innovative, balanced, ethical, authentic learning for students. (Training will be provided face-to-face, online, on-demand, in the classroom, and by request.)*

<p><b>Supporting CASE/ Modern Learning Data Variables</b></p>	<p><b>CLASSROOM ACCESS</b></p> <ul style="list-style-type: none"> <li>● 63% of teachers use technology to build and administer assessments that inform instructional practices</li> </ul> <p><b>SKILLS</b></p> <ul style="list-style-type: none"> <li>● 88% of teachers report that they are capable of finding good solutions when having issues with technology</li> </ul> <p><b>ENVIRONMENT</b></p> <ul style="list-style-type: none"> <li>● When surveyed, teachers reported the following areas of interest for ongoing professional development             <ul style="list-style-type: none"> <li>○ 47% Online Tools for Critical Thinking</li> <li>○ 46% Multimedia Skills</li> <li>○ 44% Classroom Management with Technology</li> </ul> </li> </ul>
	<p><b>MODERN LEARNING SURVEY</b></p> <ul style="list-style-type: none"> <li>● 63% of teachers report feeling safe in facilitating an online learning environment for their students</li> <li>● When surveyed, teachers reported the following areas of interest for ongoing professional development             <ul style="list-style-type: none"> <li>○ 42% Keeping Students Focused while using Technology</li> <li>○ 43% Developing Areas for Critical Thinking</li> <li>○ 31% Social Emotional Learning</li> </ul> </li> </ul>
<p><b>Texas Long Range Plan for Technology 2018-2023</b></p>	
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Digital Citizenship</li> <li>● Collaborative Leadership</li> <li>● Digital Citizenship</li> </ul>	



## STRATEGY 1

Empower teachers to bridge the belief-to-practice divide

*In order to meet the technology goals outlined in G2025, GISD technology must support teachers as they move from simply believing in the power of technology to leveraging it in the classroom. Professional learning must be driven on areas of need as well as supported by the instructional technology team through co-teaching, lesson planning, modeling, and collaboration during PLC/planning times.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Digital Citizenship</li> <li>● Collaborative Leadership</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Instructional Technology</li> <li>● Campus Administration</li> </ul>	July 2021-June 2022	\$ 20,000 <ul style="list-style-type: none"> <li>● Presenters for #Teach4Gr8ness</li> <li>● Instructional Technology Coordinator's Schedule</li> </ul>	<ul style="list-style-type: none"> <li>● BrightBytes Data</li> <li>● PD Participation</li> <li>● Participation in #Teach4Gr8ness Rally June 2021</li> <li>● Classroom technology implementation</li> <li>● Classroom Visits</li> <li>● Shared vision of GISD technology integration</li> </ul>



## STRATEGY 2

Foster 4C (communication, collaboration, creativity, and critical thinking) aligned professional development

*Understanding the importance for 21st century learning skills is vital to maintaining a teaching force that is prepared to incorporate technology into their teaching in meaningful ways. GISD Technology will encourage and support teachers by providing a supportive school environment that, in turn, fosters innovative classroom practices.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Digital Citizenship</li> <li>● Collaborative Leadership</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Instructional Technology</li> </ul>	July 2021-June 2022	\$ 75,000 <ul style="list-style-type: none"> <li>● G Suite</li> <li>● Nearpod</li> <li>● EdPuzzle</li> <li>● Kidblog</li> <li>● ZSpace</li> <li>● Library Software</li> <li>● Databases</li> <li>● Online Textbooks</li> <li>● BrainPop</li> <li>● NewsELA</li> <li>● Flipgrid</li> <li>● Storia</li> <li>● Education Galaxy</li> <li>● Microsoft Suite</li> <li>● AudioBooks</li> <li>● Other necessary instructional software</li> </ul>	<ul style="list-style-type: none"> <li>● BrightBytes Data</li> <li>● PD Participation</li> <li>● Participation in #Teach4Gr8ness Rally June 2021</li> <li>● Eduphoria Statistics</li> <li>● Classroom technology implementation</li> <li>● Teacher participation in PLNs</li> </ul>





**STRATEGY 3**

Provide targeted professional development aiming at differentiating instruction

*As the number of students in GISD grows and the needs of the students change, GISD must continue to strive for adaptive and individualized learning based on each student's needs and abilities. Specific tools and professional development must be provided in order to facilitate learning for all. The COVID-19 pandemic provided GISD teachers, administrators, students, and staff with some unique challenges and opportunities for growth; thus driving purposeful, targeted professional development geared toward differentiating instruction to all learners and learning styles.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Digital Citizenship</li> <li>● Reliable Infrastructure</li> <li>● Collaborative Leadership</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Instructional Technology</li> <li>● GISD Curriculum Department</li> <li>● Campus Administration</li> </ul>	<p>July 2021-June 2022</p>	<p>\$ 65,000</p> <ul style="list-style-type: none"> <li>● Reading A-Z</li> <li>● Fountas and Pinnell Online Resources</li> <li>● Reflex Math</li> <li>● Nearpod</li> <li>● Screencastify</li> <li>● ReadyRosie</li> <li>● NNAT3</li> <li>● Online Textbooks</li> <li>● ZSpace</li> <li>● Accessibility Tools               <ul style="list-style-type: none"> <li>○ Read/Write Extensions</li> <li>○ Speech to Text</li> <li>○ Kami</li> <li>○ GSuite</li> <li>○ BrainPop ESL</li> <li>○ Adobe Creative Cloud</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● BrightBytes Data</li> <li>● PD Participation</li> <li>● Participation in #Teach4Gr8ness Rally June 2020</li> <li>● Classroom Visits</li> <li>● Software usage stats</li> <li>● B.L.I.S.S Training attendance</li> </ul>



## STRATEGY 4

Provide learning opportunities for teachers to utilize technology equitably to for students in both face-to-face and virtual learning

*GISD technology will support ways in which technology, such as forms, rubrics, discussion boards or real-time polls, can support reliable formative assessment that support learning during the process and provides students personalized, real-time feedback. GISD technology will expand on professional development opportunities for administrators, counselors, teachers, and students toward seamless integration of online local and state assessments including common assessments, STAAR testing, AP tests, and EOC tests.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Digital Citizenship</li> <li>● Reliable Infrastructure</li> <li>● Collaborative Leadership</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Instructional Technology</li> <li>● Curriculum Department</li> <li>● Campus Administration</li> </ul>	July 2021-June 2022	\$ 72,000 <ul style="list-style-type: none"> <li>● Turn It In</li> <li>● NewsELA</li> <li>● DMAC</li> <li>● iStation</li> <li>● NWEA Map</li> <li>● CLI Engage</li> <li>● mClass</li> <li>● Amplify</li> <li>● G Suite</li> <li>● Nearpod</li> <li>● EdPuzzle</li> <li>● Skyward</li> <li>● Google Classroom</li> <li>● SeeSaw</li> </ul>	<ul style="list-style-type: none"> <li>● District Common Assessment Scores</li> <li>● State Assessment Scores</li> <li>● Student Success Indicators</li> <li>● Classroom Visits</li> <li>● Data</li> </ul>



**OBJECTIVE 5: COMPLIANCE**

*Establish procedures to meet all state and federal technology regulations*

*The 86th Texas Legislature passed a series of bills pertaining to technology in education. As more clarification of these bills is provided, GISD will continue to monitor and adjust as necessary.*

<b>Supporting CASE/ Modern Learning Data Variables</b>	<p><b>CLASSROOM</b></p> <ul style="list-style-type: none"> <li>● GISD must explicitly teach students how and what information to share about themselves online           <ul style="list-style-type: none"> <li>○ (70% of students say this has not been taught)</li> </ul> </li> </ul> <p><b>ACCESS</b></p> <ul style="list-style-type: none"> <li>● Increased access to technology necessitates increased lessons on cybersafety</li> </ul> <p><b>SKILLS</b></p> <ul style="list-style-type: none"> <li>● Students and staff must explicitly be taught about cybersafety, cyberbullying, information handling, and personal information</li> </ul> <p><b>ENVIRONMENT</b></p> <ul style="list-style-type: none"> <li>● GISD must report any data breach to TEA, parents, and staff</li> </ul>
	<p><b>MODERN LEARNING</b></p> <ul style="list-style-type: none"> <li>● 63% of teachers always feel safe facilitating an online environment for their students</li> <li>● 33% of school leadership always feels that their teachers feel safe facilitating an online environment for our students.</li> <li>● 13% of students reported their teachers talk about how to respond to online bullying a few times a week, and 24% reported their teachers never have this conversation</li> <li>● 11% of teachers reported they talk with students about how to respond to online bullying a few times a week and 25% stated they never have this conversation</li> </ul>
<b>Texas Long Range Plan for Technology 2018-2023</b>	
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Reliable Infrastructure</li> <li>● Collaborative Leadership</li> </ul>	



## STRATEGY 1

Employ technology as a tool to facilitate data-driven decision making, access and maintain secure records, effective communication, and streamlined reporting

*GISD utilizes technology as a tool to access and maintain student records for attendance, grades, discipline, transcripts, and PEIMS reporting. Student testing information, Rtl, IEP, LPAC, and 504 information is also stored electronically for mandatory reporting processes. In addition to student reporting, department reporting including transportation, HR, Facilities, Maintenance, and the Business Office all utilize technology systems for scheduling, recruiting, substitute reporting, route management, work orders, and financial management. Skyward Family Access and Skyward Student Access allow both parents and students to monitor grades, attendance, health information and keep in touch with teachers and student progress. GISD utilizes a district-wide notification system for emergency broadcasts, parent outreach, and student attendance communications. The GISD website, maintained by the Director of Communication, is the face of the district and remains current at all times.*

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Reliable Infrastructure</li> <li>● Collaborative Leadership</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> </ul>	July 2021-June 2022	\$450,000 Funding sources include technology, special education, human resources, transportation, maintenance, food service, curriculum, communication, and business office budgets.	<ul style="list-style-type: none"> <li>● All student records readily available including special education, testing, grades, discipline, transcripts, and progress records from various software programs</li> <li>● Department reports from Athletics, Transportation, Maintenance, Facilities, Support Services, Technology and the Business Office</li> <li>● Accurate reporting for state and federal mandates</li> <li>● Social Media Presence</li> <li>● School Wires Statistics</li> <li>● School Messenger Statistics</li> <li>● Skyward Communication Reports</li> </ul>



**STRATEGY 2**

Mandate cybersecurity training program that focuses on forming information security habits and procedures that protect information resources, and teach best practices for detecting, assessing, reporting, and addressing information security threats.

LRPT	Owner	Timeline	Budget/Resources	Success Measure
<ul style="list-style-type: none"> <li>● Personalized, Flexible, Empowered Learning</li> <li>● Equitable Access</li> <li>● Reliable Infrastructure</li> <li>● Collaborative Leadership</li> </ul>	<ul style="list-style-type: none"> <li>● Director of Technology</li> <li>● Network Administrators</li> </ul>	July 2021-June 2022	\$ 50,000 Funding sources include the technology department and security department budgets.	<ul style="list-style-type: none"> <li>● KnowBe4 reports</li> <li>● Decreased malware present on the network</li> <li>● Cyber breach reports</li> <li>● Committee Reports</li> <li>● AlertUs statistics</li> <li>● Raptor Statistics</li> </ul>



## EVALUATION:

This technology plan is a living document and will be reviewed and updated semi-annually. The evaluation will ensure the goals and objectives remain aligned with the strategic plan (G2025).

To continue to improve, teachers, students, and parents will participate in the BrightBytes survey once a year. This data will ensure growth and pinpoint areas in need of improvement. In addition, software utilization and effectiveness will be monitored to determine if the needs of all students are being addressed.

In order to meet the professional development needs established by BrightBytes data collected, GISD will continue to host the #Teach4Gr8ness Rally each June. The focus for the conference this year will be celebrating advancements in remote/digital learning, formative assessment, differentiated instruction, increased classroom implementation of the 4Cs using technology, and bridging the belief-to-practice gap. In-district experts, as well as nation-wide technology leaders will teach strategies and methods that can be easily implemented. These strategies and methods can be polished during the summer for seamless implementation into the 2021-2022 classroom scope & sequences.

Successful integration of technology in the classroom will be visible through student performance, curricular projects, lesson plans, classroom visits, social media and dynamic project-based learning experiences.

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