

# **ZEPHYR ISD Technology Plan**

**2019 - 2020**

**Stanton Marwitz**

**SUPERINTENDENT**

## DISTRICT PROFILE

<b>ESC Region</b>	15
<b>City, State Zip</b>	ZEPHYR, TX 76890
<b>Phone</b>	(325) 739-5331
<b>Fax</b>	(325) 739-5906
<b>County District Number</b>	025906

<b>Number of Campuses</b>	1
<b>Total Student Enrollment</b>	218
<b>District Size</b>	Under 500
<b>Percent Econ. Disadvantaged</b>	61.93%

<b>Technology Expenditures</b>	\$34,500.00										
<b>Technology budgets reported in plan by category</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Teaching and Learning Budget</td> <td style="text-align: right;">\$2,000.00</td> </tr> <tr> <td>Educator Preparation and Development Budget</td> <td style="text-align: right;">\$1,500.00</td> </tr> <tr> <td>Leadership, Administration and Support Budget</td> <td style="text-align: right;">\$3,000.00</td> </tr> <tr> <td>Infrastructure for Technology Budget</td> <td style="text-align: right;">\$29,500.00</td> </tr> <tr> <td><b>Total:</b></td> <td style="text-align: right;"><b>\$36,000.00</b></td> </tr> </table>	Teaching and Learning Budget	\$2,000.00	Educator Preparation and Development Budget	\$1,500.00	Leadership, Administration and Support Budget	\$3,000.00	Infrastructure for Technology Budget	\$29,500.00	<b>Total:</b>	<b>\$36,000.00</b>
Teaching and Learning Budget	\$2,000.00										
Educator Preparation and Development Budget	\$1,500.00										
Leadership, Administration and Support Budget	\$3,000.00										
Infrastructure for Technology Budget	\$29,500.00										
<b>Total:</b>	<b>\$36,000.00</b>										
<b>Technology Expenditure Per Pupil</b>	\$165.14										
<b>Number of Campuses with High-Speed Broadband Internet Access that meets the current FCC target</b>	1										
<b>Percentage of Campuses with High-Speed Broadband Internet Access that meets the current FCC target</b>	100.00%										
<b>Number of Classrooms with WiFi Access</b>	25										
<b>Percentage of Classrooms with WiFi Access</b>	100.00%										
<b>Computing Device/Student Ratio (include Computers and Tablets, but not cell phones)</b>	2 student(s) for every computing device										
<b>Computing Device/Teacher Ratio (include Computers and Tablets, but not cell phones)</b>	1 teacher(s) for every computing device										
<b>CIPA Compliance</b>	The Board of Trustees or Governing Board for ZEPHYR ISD held a public hearing on its Internet Safety Policy on 7/18/19 and adopted its policy on 7/19/19. The public hearing was publicized according to district or school policies and the adoption of the policy is reflected in the minutes of the board of trustees or governing board.										

# Plan Introduction

Plan Last Edited 12/13/2019

Years Included in the Plan: 2019-2020

Number of years covered by the plan: 1

## Technology Planning Committee

Wade Lowrey - Technology Director

Stanton Marwitz - Superintendent

Kelsa Blair- Principal

Ethan Fisher - Teacher

Brenda Tunnell - Counselor

## Executive Summary

In order to prepare students to live, learn, work and thrive in the world of the 21st century, Zephyr ISD must provide access to an education in the use of emerging technologies of the Digital Age. Digital Age Literacy – the ability to acquire, evaluate, and utilize vast amounts of information – has become the fourth basic skill needed to educate both present and future generations. Communication and publication, knowledge building and research, problem solving and experimentation, and construction and knowledge building, are requisite skills for the 21st century. Zephyr ISD should be a place where technology is integrated into all aspects of curriculum, instruction, assessment, and school management. Technology should play an integral role in providing, extending, and enriching learning opportunities for all students, ensuring staff time can be focused where needed and not wasted on tedious tasks that could be automated or made easier through the use of appropriate technology.

The Zephyr ISD Technology Plan is based on six goals encompassing the areas of infrastructure and connectivity, support services, professional development, digital content, instructional integration, and information processing and communication, leading to improved teaching and learning, student outcomes, and school management.

### Infrastructure and Connectivity –

Maintain an infrastructure which provides all students and staff access to contemporary technologies, software, and telecommunications networks. Support Services - Provide a level of technical support and service necessary to maintain hardware and software resources promoting efficiency in administrative and instructional functions.

### Professional Development –

Provide technical training and staff development for all employees, focusing on the mastery of technology standards, the integration of technology into instruction for instructional staff, and increased efficiency and productivity for all personnel. Digital Content – Identify and integrate computer applications and digital content throughout the district to maximize educational benefits. Instructional Integration – Utilize available technologies to improve teaching and learning and student outcomes, including mastery of the Technology Applications Texas Essential Knowledge and Skills (TEKS).

Information Processing and Communication – Provide tools and strategies to collect, analyze, and communicate accurate data and information about student performance and the school district's activities and plans in support of the continuous school improvement process. The purpose of why Zephyr ISD has prepared this Long-Range Technology Plan is 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 that are essential for academic and workplace success and build the capacity of all teachers to integrate technology effectively into curriculum and instruction.

### Background -

This plan is based on information drawn from many sources including:

- STAR Chart
- STAAR Test scores
- A survey of school site hardware and instructional media.
- Interviews with site and district administrators and representatives from the Zephyr community.
- Other district technology plans
- Experience from other school districts.

### Parameters -

This Long-Range Technology Plan is driven by the state curriculum standards and supports the educational mission and instructional goals of Zephyr ISD and by the No Child Left Behind Act of 2001. Specific attention is given to addressing student standards for technology as defined by the Technology Applications Texas Essential Knowledge and Skills (TEKS), required in the Texas Education Code, Section 28.002. The Technology Applications TEKS found in 19 TAC Chapter 126 describe what students should know and be able to do using technology. As a part of the enrichment curriculum, these TEKS are to be used as guidelines for providing instruction. The goal of the Technology Applications TEKS is for students to gain technology-based knowledge and skills and to apply them to all curriculum areas at all grade levels. 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. It also is consistent with the recommendations for LEA's as defined by the Texas Long-Range Plan for Technology in the areas of Teaching and Learning, Educator Preparation and Development, Administration and Support Services, and Infrastructure for Technology, as well as the e-rate applications guidelines, and other state standards, such as the newly adopted Technology Applications Standards for Beginning Teachers.

### Vision Statement -

We envision technology as a transparent and effective tool which will transform teaching and learning in the Zephyr Independent School District. Technology has the power to convert every classroom into a worldwide laboratory. It can enhance our staff's ability to convey knowledge to students with diverse learning styles; and it can provide students with the means and methods necessary to explore new ways to interact, to communicate and to learn. The Zephyr Independent School District will appropriately integrate technology into all aspects of curriculum, instruction, assessment, and school management to achieve the best possible outcomes. All students will learn skills that will enable them to function as productive citizens in a global, technologically oriented society. Technology will extend learning for all students in the district. The effective use of technology has many positive effects on the process of student learning and achievement.

Technology –

- enhances regular classroom instruction by providing instructional models that support best practices and extensive access to learning resources;
- accommodates different learning styles and paces;
- provides intervention for some students while encouraging others to take their learning experience in exciting new directions;
- creates positive student attitudes about learning;
- promotes and improves productivity and skill that are vital both in the educational setting and in the workplace – teamwork, communication, presentation, and problem solving;
- breaks down physical and social barriers and reduces classroom isolation; and, •increases efficiency in administrative functions and improves workflow.

## Needs Assessment

### Assessment Process:

Needs Assessment

A comprehensive needs assessment utilizing teacher/student surveys, interviews, focus group sessions, inventories and the Texas Campus STAR Chart 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 need for integrating technology into the educational system is recognized at the national, state, and local levels as well as documented in current research.

### Existing Conditions:

The following technology is currently in place:

#### *District-Wide*

- Direct connection to the Internet via Wireless WAN as provided through the Region 15 Service Center in San Angelo, TX
- Fiber backbone
- HP ProCurve Gigabit Switches
- CAT 5 and CAT 6 Ethernet connections to the desktop
- High speed, high capacity network storage solution
- Enterprise level, cloud controlled, robust wireless access points
- Written policies in place on acceptable use of the Internet, World Wide Web content, and district technology equipment.
- Listing of library books available online, Internet access, Texas Library Connection, and automated checkout in the library.
- VOIP system with phones installed in all classrooms and offices

#### *Grades 8-12*

- Direct connection to the Internet via Wireless WAN At least two network drops in each classroom
- File server maintained by the District Technology Director.
- Fiber-backbone, Ethernet-to-the-desktop connected computers in all classrooms and labs.
- Teacher laptops and docking stations in all classrooms, all teachers utilize email and administrative services. Online grade book for teachers tied to administrative software.
- Online attendance accounting for each teaching workstation
- Online professional development access for teachers to engage in on-demand courses
- Digital cameras and scanner technology available for classroom instruction as well as journalism and yearbook applications
- Computer LCD projector available for teacher instruction and staff development
- Interactive white boards, projectors, or panels installed in all classrooms VOIP system with phones installed in all classrooms.
- Wi-Fi access for teachers to use for classroom instruction Cloud storage for all staff and students
- Two networked computer labs for classroom technology implementation

#### *Grade K-7*

- Direct connection to the Internet via Wireless WAN At least two network drops in every classroom
- File server maintained by the District Technology Director
- Fiber-backbone, Ethernet-to-the-desktop connected computers in all classrooms and labs.
- Teacher laptops and docking stations in all classrooms, all teachers utilize email and administrative services. Online grade book for teachers tied to administrative software.
- Online attendance accounting for each teaching workstation
- Online professional development access for teachers to engage in on-demand courses
- Digital cameras and scanner technology available for classroom instruction Computer LCD projector available for teacher instruction and staff development Interactive white boards, projectors, or panels installed in all classrooms
- Wi-Fi access for teachers to use for classroom instruction Mobile tablets for student use

### **Technology Needs:**

Zephyr ISD is constantly reviewing the current technology trends within industry and education alike. We acknowledge that in order for a student to leave our school system and graduate into higher learning and into the workforce, they must be equipped with the knowledge and skills that allow them to succeed in the 21st century. With that goal in mind, our technology committee has identified these current needs:

- New mobile computers for the High School Science lab
- Mobile computer solutions for students to have access to within classrooms
- New interactive smart panels to replace outdated equipment
- Continue educating our staff and faculty of the latest trends in technology and to provide them with the necessary training to develop skills that will allow them to teach 21st century students.
- 1:1 mobile technology access to students within K-5 within the classroom
- 1:1 laptop solution for high school/junior high students

## Goals, Objectives, and Strategies

**GOAL 1: Improve student learning by infusing technology into the curriculum and classroom with the aim of challenging state academic content and student academic achievement standards**

**OBJECTIVE 1.1:** Upon graduation all students will be able to independently use a variety of objective: technological tools and resources including hardware and software in developing information literacy skills

*Budget Amount \$1,000.00*

*LRPT category: Teaching and Learning*

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
1.1.1:	Develop a district-wide plan for building technology literacy using the Technology Applications Texas Essential Knowledge and Skills (TEKS)  Comments: Local, state, and federal funds, grant funds  LEA LRPT Correlates: LAS01, LAS07, LAS08, TL01, TL06, TL08	State: Original  Status: In Progress	2019-2020	Technology Director, Teachers	Plan for technology literacy
1.1.2:	Increase academic performance through the use of technology-based resources  Comments: Curriculum documents, web resources, staff development  LEA LRPT Correlates: I01, I05, I06, I07, TL08, TL09, TL10, TL12, TL13, TL14, TL16	State: Original  Status: In Progress	2019-2020	Teachers, Curriculum Coordinators	STAAR scores, demonstrate mastery of TEKS
1.1.3:	Offer all technology applications courses; teach a minimum of four classes each year  Comments: Local, state, and federal funds, grant funds  LEA LRPT Correlates: TL02	State: Original  Status: In Progress	2019-2020	Technology Director, Teachers, High School Principal, Curriculum Coordinator	List of course offerings
1.1.4:	Engage students in the classroom use of technology and structure classroom opportunities for students to seamlessly apply technology in their learning  Comments: Curriculum documents, web resources, staff development  LEA LRPT Correlates: TL05, TL08, TL09, TL12	State: Original  Status: In Progress	2019-2020	Teachers, Principal, Curriculum Coordinator	Class work, student portfolios
1.1.5:	Provide skills and means for students to communicate effectively with a variety of audiences  Comments: Curriculum documents, web resources, staff development, distance learning  LEA LRPT Correlates: TL12	State: Original  Status: In Progress	2019-2020	Teachers, Principal, Curriculum Coordinator	Lesson plans, student portfolios

**OBJECTIVE 1.2:** Upon graduation all students will be able to select and use technological research objective: tools for accomplishing a variety of tasks, problem solving, supporting learning and researching real world problems

*Budget Amount \$1,000.00*

*LRPT category: Teaching and Learning*

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
1.2.1:	Focus curriculum on high level thinking skills and information accessing procedures	State: Original	2019-2020	Technology Director, Teachers	Assessment of lesson

	Comments: Curriculum documents, web resources, staff development LEA LRPT Correlates: TL14	Status: In Progress			plan objectives
1.2.2:	Develop curriculum for TEKS-specified credit courses, industry-specified certification programs and other technology based courses as appropriate  Comments: Region XV ESC, TEKS, service providers  LEA LRPT Correlates: TL13	State: Original  Status: In Progress	2019-2020	Teachers, Curriculum Coordinators	List of course offerings
1.2.3:	Integrate the TEKS into all curriculum areas in the K-12 programs by including software and electronically delivered materials in instruction  Comments: Web resources  LEA LRPT Correlates: LAS12, TL08	State: Original  Status: In Progress	2019-2020	Technology Director, Teachers, Principal, Curriculum Coordinator	Assessment of lesson plans, objectives
1.2.4:	Use evolving technologies in instruction to foster greater levels of interest, inquiry, analysis, collaboration, creativity, and content production by including software and electronically delivered materials in instruction utilizing Ed Tech Funding  Comments: Curriculum documents, staff development, distance learning  LEA LRPT Correlates: TL08, TL09	State: Original  Status: In Progress	2019-2020	Technology Director, Teachers, Principal, Curriculum Coordinator	Assessment of lesson plans, objectives

**GOAL 2: Provide initial and ongoing staff development for teachers and educational staff members to enhance technology skills that will help achieve curriculum objectives, manage information and communicate effectively**

**OBJECTIVE 2.1:** Develop a systematic plan for delivering instruction to all teachers to help them achieve competency, as outlined in the ISTE NETS for Teachers, in the use of technology and teaching methodologies using existing resources

*Budget Amount \$1,000.00*

*LRPT category: Educator Preparation and Development*

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
2.1.1:	Provide staff development opportunities to meet district-defined and SBEC proficiency standards  Comments: Region XV ESC, in-district offerings by Instructional Technology Trainers  LEA LRPT Correlates: EP01, EP02, EP03, EP06, EP08, LAS06	State: Original  Status: In Progress	2019-2020	Technology Director, Principal	Self-assessment, teacher appraisals
2.1.2:	Facilitate collaboration between all classroom teachers and Library/Media Specialists in the development for integrating technology into teaching and learning  Comments: Region XV ESC, in-district offerings by Instructional Technology Trainers  LEA LRPT Correlates: EP09, LAS10	State: Original  Status: In Progress	2019-2020	Technology Director, Principal, Teachers, Library Specialists	Documentation of staff development participation
2.1.3:	Build awareness of technology integration practices through an administrator development model and based on the review of relevant research  Comments: Local, state, and federal funds  LEA LRPT Correlates: I03, I08	State: Original  Status: In Progress	2019-2020	Technology Director, Principal	Documentation of staff development models
2.1.4:	Provide and assess professional development for integrating technology into teaching and learning, instructional management, and administration  Comments: Local, state, and federal funds  LEA LRPT Correlates: EP01, EP02, EP03, EP04, EP06, EP07, EP08, LAS10	State: Original  Status: In Progress	2019-2020	Administration, Technology Director, Principal	Documentation of staff development models

**OBJECTIVE 2.2:** Draw upon other successful technology integration projects to develop successful methodology of improving all teachers' pedagogical approaches to student learning using technology

*Budget Amount \$500.00*

*LRPT category: Educator Preparation and Development*

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
2.2.1:	Use staff development personnel, area coordinators, and planning group personnel to develop a variety of professional development models.  Comments: Region XV ESC, in-district offerings by Instructional Technology Trainers  LEA LRPT Correlates: EP01, EP02, EP06, LAS03	State: Original  Status: In Progress	2019-2020	Technology Director, Principal	Self-assessments, teacher appraisals, professional development models

2.2.2:	Utilize technology funds to provide professional development training for teachers, librarians, principals, and administrators that aligns with SBEC Technology Applications  Comments: Local funds, Title II, Part D  LEA LRPT Correlates: EP01, EP02, EP03, LAS03	State: Original  Status: In Progress	2019-2020	Technology Director, Principal	Documentation of staff development participation, PEIMS data
2.2.3:	Provide on-site assistance to assist teachers with teaching strategies for vertical alignment of TEKS  Comments: Local funds, Title II, Part D, Title 1, Part A  LEA LRPT Correlates: EP09	State: Original  Status: In Progress	2019-2020	Technology Director, Principal	Documentation of staff development participation, PEIMS data
2.2.4:	Provide incentives and support for educators to develop models in the integration of teaching, learning, and technology  Comments: Local funds, Title II, Part D, Title 1, Part A  LEA LRPT Correlates: EP06	State: Original  Status: In Progress	2019-2020	Technology Director, Principal	Documentation of staff development participation, PEIMS data

**GOAL 3: Provide appropriate data and information to identify strengths and concerns of the District's use of technology to support administration, data management, and communications processes**

**OBJECTIVE 3.1:** Support the improvement of student achievement through the use of technology.

*Budget Amount \$1,500.00*

*LRPT category: Leadership, Administration and Support*

<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
3.1.1:	Support the use of research-based curriculum and instructional practices  Comments: Curriculum and instruction practices, technology use in the classroom, student information data  LEA LRPT Correlates: LAS08, TL10	State: Original  Status: In Progress	2019-2020	Administration, Technology Director, Principals, Teachers	Annual achievement as measured by standardized assessments
3.1.2:	Support data driven decision-making  Comments: Campus portfolios  LEA LRPT Correlates: LAS02	State: Original  Status: In Progress	2019-2020	Administration, Technology Director, Principals, Teachers	Annual achievement as measured by standardized assessments
3.1.3:	Utilize distance learning and digital content services for expanding curricular offerings and meeting the needs of all students  Comments: Curriculum and instruction practices, technology use in the classroom, student information data  LEA LRPT Correlates: LAS15, TL12	State: Original  Status: In Progress	2019-2020	Administration, Technology Director, Principals, Teachers	Annual achievement as measured by standardized assessments
3.1.4:	Implement policies regarding parental and community access to personnel and other non-secure data through technology  Comments: Curriculum and instruction practices, technology use in the classroom, student information data  LEA LRPT Correlates: I07, I08, LAS09, LAS11	State: Original  Status: In Progress	2019-2020	Administration, Technology Director	Annual achievement as measured by standardized assessments

3.1.5:	Continue to seek external funding for technology infrastructure  Comments: Curriculum and instruction practices, technology use in the classroom, student information data  LEA LRPT Correlates: LAS04	State: Original  Status: In Progress	2019-2020	Administration, Technology Director	Campus and District Plans
3.1.6:	Integrate technology planning into all classroom, library, campus, and district plans  Comments: Curriculum and instruction practices, technology use in the classroom, student information data  LEA LRPT Correlates: I01, LAS02	State: Original  Status: In Progress	2019-2020	Administration, Technology Director, Principals, Librarians	Campus and District Plans

**OBJECTIVE 3.2:** Implement technology performance indicators at all grade levels

*Budget Amount \$1,000.00*

*LRPT category: Leadership, Administration and Support*

<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
3.2.1:	Campus-level implementation - campus technology committees design methods for meeting performance indicators  Comments: No Child Left Behind legislation  LEA LRPT Correlates: EP04, EP05, LAS05	State: Original  Status: In Progress	2019-2020	Technology Director, Principals, Teachers	Campus plans for implementing technology performance benchmarks
3.2.2:	Assessment of technological literacy development - develop an assessment tool and/or process to ensure that all students are technologically literate  Comments: No Child Left Behind legislation  LEA LRPT Correlates: LAS05, TL04, TL06	State: Original  Status: In Progress	2019-2020	Administration, Technology Director, Principals, Teachers	Campus plans for implementing technology performance benchmarks

**OBJECTIVE 3.3:** Promote community involvement in all schools

*Budget Amount \$500.00*

*LRPT category: Leadership, Administration and Support*

<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
3.3.1:	Recruit volunteers - seek out community volunteers to work with students and staff on technology projects  Comments: Parents, clergy, local businesses, community organizations  LEA LRPT Correlates: I03, LAS13	State: Original  Status: In Progress	2019-2020	Technology Director, Principals	Volunteerism increases, local business technology donations,
3.3.2:	Solicit contributions - provide local businesses with a "wish-list" of equipment and services needed to prevent equipment obsolescence  Comments: Local businesses, chamber of commerce  LEA LRPT Correlates: I02	State: Original  Status: In Progress	2019-2020	Administration	Network inventory

3.3.3:	Community partnerships - promote partnerships among schools and local businesses and agencies that utilize technology in order to share and acquire technology skills  Comments: Parents, clergy, local businesses, community organizations  LEA LRPT Correlates: I08	State: Original  Status: In Progress	2019-2020	Technology Committee	Network inventory
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**GOAL 4: Maintain the capability and stability of the LAN, WAN, Internet connectivity, user/computer ration, and emerging technologies as appropriate**

**OBJECTIVE 4.1:** Provide for appropriate and equitable technology for all students, teachers, and District Improvement Plan Goals supported by this objective: administrators and to provide access to communicate with and correspond with parents.

*Budget Amount \$5,000.00*  
*LRPT category: Infrastructure for Technology*

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
4.1.1:	Provide Internet access for all administrative staff, teachers, and students  Comments: Erate Funding LEA  LRPT Correlates: I01, I04	State: Original  Status: In Progress	2019-2020	Technology Director	Network reports
4.1.2:	Inventory - maintain a current technology inventory of all computers, peripherals, etc. The database will be updated on a regular basis and maintained by the district technology staff.  Comments: District inventory  LEA LRPT Correlates: I08	State: Original  Status: In Progress	2019-2020	Technology Director	Updated inventories
4.1.3:	Evaluation of emerging technology - evaluate emerging technology and recommend its appropriateness for use within the district  Comments: New and emerging technology resources  LEA LRPT Correlates: I01, I06	State: Original  Status: In Progress	2019-2020	Technology Director, Technology Committee	Student academic achievement, network availability
4.1.4:	Technology sharing - develop a method for sharing technology resources within the district  Comments: New and emerging technology resources  LEA LRPT Correlates: EP01	State: Original  Status: In Progress	2019-2020	Technology Committee	Student academic achievement, network availability

**OBJECTIVE 4.2:** Create appropriate standards for all computer and software purchases

*Budget Amount \$1,000.00*  
*LRPT category: Infrastructure for Technology*

Strategies		State/Status:	Timeline:	Person(s) Responsible:	Evidence:
4.2.1:	Computer specifications - develop computer specifications based on software applications and operating systems requirements. The standards will be updated on an annual basis and be available prior to budget preparation  Comments: District inventory  LEA LRPT Correlates: I01	State: Original  Status: In Progress	2019-2020	Technology Director, Technology Committee	Updated inventories, computer specifications, budget information

4.2.2:	Software specifications - develop software specifications based on the following criteria: (1) educational need; (2) community and business practices; and (3) installed hardware base and apply these specifications to all campuses. Update on an annual basis  Comments: District inventory  LEA LRPT Correlates: I01, I05, TL03	State: Original  Status: In Progress	2019-2020	Technology Director, Technology Committee	Updated inventories, computer specifications, budget information
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**OBJECTIVE 4.3:** Create appropriate standards for student to computer ratio and teacher to computer ratio

*Budget Amount \$15,000.00*  
*LRPT category: Infrastructure for Technology*

<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
4.3.1:	Maintain student to computer ratio - according the Texas LRPT, all schools will have a 4:1 student to multimedia computer ratio  Comments: District inventory  LEA LRPT Correlates: I04, TL09	State: Original  Status: In Progress	2019-2020	Administration, School Board, Technology Director, Technology Committee	Updated inventories, computer specifications, budget information
4.3.2:	Teacher computers and presentation systems - all schools will provide teachers with access to a modern multimedia computer and presentation system. Obsolete computers will not be included in the calculation of teacher to computer ratio. The district will have a 1:1 ratio of teachers to computers  Comments: District inventory  LEA LRPT Correlates: I01, I04	State: Original  Status: In Progress	2019-2020	Administration, School Board, Technology Director, Technology Committee	Updated inventories, computer specifications, budget information
4.3.3:	Assessto emerging technologies - presently iOS devices, tablets, digital readers, and other devices are emerging as potential replacements for student desktop computers. Evaluation of student access to these technologies is required on an ongoing basis and may modify and/or replace the student to computer ratio.  Comments: District inventory, service providers  LEA LRPT Correlates: I01	State: Original  Status: In Progress	2019-2020	Administration, School Board, Technology Director, Technology Committee	Computer specifications, budget information, vendor presentations

**OBJECTIVE 4.4:** Provide curricular specific software and online resources that align with school level curriculum standards

*Budget Amount \$3,000.00*  
*LRPT category: Infrastructure for Technology*

<i>Strategies</i>		<i>State/Status:</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
4.4.1:	Research resources - evaluate curricular software and online resources that are research-based and effective in meeting instructional goals and benchmarks  Comments: Software inventory, Online resources  LEA LRPT Correlates: TL07, TL10	State: Original  Status: In Progress	2019-2020	Technology Director, Technology Committee	Annual technology survey to measure progress

4.4.2:	Establish resources - each school will create an inventory of curricular specific software and online resources to help achieve instructional goals and benchmarks  Comments: Software inventory, Online resources  LEA LRPT Correlates: TL13	State: Original  Status: In Progress	2019-2020	Technology Director, Technology Committee, Teachers, Campus Librarian	Annual technology survey to measure progress
4.4.3:	Implement resources - the district will purchase and support curriculum specific software and online resources to help achieve instructional goals and benchmarks  Comments: Software inventory, Online resources  LEA LRPT Correlates: TL08, TL11	State: Original  Status: In Progress	2019-2020	Technology Director, Technology Committee, Teachers, Campus Librarian	Annual technology survey to measure progress, benchmark test scores, student academic achievement records

**OBJECTIVE 4.5:** Provide technology support services for all new and existing equipment, network infrastructure, and software  
  
*Budget Amount \$4,000.00*  
*LRPT category: Infrastructure for Technology*

<i>Strategies</i>		<i>State/Status</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
4.5.1:	Technology support services - continue to fund this service to a level that will address the district's technological needs  Comments: Local, state, and federal funds  LEA LRPT Correlates: I01	State: Original  Status: In Progress	2019-2020	School Board, Administration	District budget
4.5.2:	Technology maintenance - continue to provide funding for maintenance of technology, hardware, software, and infrastructure  Comments: Local, state, and federal funds, Erate funds  LEA LRPT Correlates: I01, LAS14	State: Original  Status: In Progress	2019-2020	School Board, Administration	District budget, purchase orders
4.5.3:	Training - continue to provide training for Technology Support Services staff  Comments: Local, state, and federal funds  LEA LRPT Correlates: EP03	State: Original  Status: In Progress	2019-2020	School Board, Administration	District Budget, service orders
4.5.4:	Provide an effective system for communication with parents of students  Comments: Local, state, and federal funds, Erate funds, grant funds  LEA LRPT Correlates: LAS09, LAS11, LAS13, TL15, TL16	State: Original  Status: In Progress	2019-2020	Technology Director, Technology Committee	Technology surveys, Online and telephone usage records

**OBJECTIVE 4.6:** Develop standards for access to Internet-based resources including e-mail, World Wide Web, and distance learning  
  
*Budget Amount \$1,500.00*  
*LRPT category: Infrastructure for Technology*

<i>Strategies</i>		<i>State/Status</i>	<i>Timeline:</i>	<i>Person(s) Responsible:</i>	<i>Evidence:</i>
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4.6.1:	<p>Define access requirements - determine levels of use through a network utilization study</p> <p>Comments: Network utilization</p> <p>LEA LRPT Correlates: I07, I09</p>	<p>State: Original</p> <p>Status: In Progress</p>	2019-2020	Technology Director	Network utilization study results
4.6.2:	<p>Develop standards - determine current acceptable standards for network connectivity based on educational needs</p> <p>Comments: District Technology Plan</p> <p>LEA LRPT Correlates: I01, I07</p>	<p>State: Original</p> <p>Status: In Progress</p>	2019-2020	Technology Director, Technology Committee	School use standards
4.6.3:	<p>Develop security policies and procedures - policies and procedures to ensure the secure and safe use of all networks and equipment are to be implemented</p> <p>Comments: Security and safety policies</p> <p>LEA LRPT Correlates: I07</p>	<p>State: Original</p> <p>Status: In Progress</p>	2019-2020	Technology Director, Technology Committee	Network safety and security procedures

## Budget

<b>Budget year 2019</b>		
<b>Budget item</b>	<b>Cost</b>	<b>Funding Sources with amount per source</b>
Staff Development	\$2,000.00	Title II, Part A 100%
Telecommunications & Internet Access	\$7,500.00	Local funds E-Rate
Materials & Supplies	\$5,000.00	Local Funds
Equipment	\$16,000.00	Local funds Grants
Maintenance	\$1,000.00	Local funds
Miscellaneous Expenses	\$4,500.00	Local funds
<b>Total</b>	<b>\$36,000.00</b>	

# Evaluation

## Evaluation Process:

### Evaluation

Zephyr Independent School District believes that evaluation is critical to the progress of its educational technology plan. Therefore, we will engage in a rigorous, summative and formative evaluation process as a part of the ongoing nature of our planning network. We will produce an evaluation report each year of our three-year implementation effort. Evaluation means ways of examining the performance of the overall technology program as well as specific aspects of the program, such as professional development, technical assistance, and resources. Program evaluation usually addresses questions of accountability, quality, impact, sustainability and lessons learned.

### Accountability

Is the program doing what is supposed to do i.e., what was laid out in the technology plan? Is the money being spent well?

### Quality

How well are we implementing program activities and strategies? How good (useful, effective, well-received) are the program's services and products, such as professional development, technical assistance, resources, and infrastructure?

### Impact

Is the program making a difference? What effects are services and products having on teachers? Students? Administrators? Community?

### Sustainability

What elements are or need to be in place for sustained levels of improvement in teaching and learning with technology to occur?

### Lessons learned

What lessons are we learning about the processes and factors that support or inhibit the accomplishment of objectives.

Improvement - How are we using the results of the evaluation to improve the teaching and learning process and student achievement? Schedule for Plan Evaluation

As noted in previous sections, Plan evaluations will take place at different times during the year. Final summaries will be developed each March. The District Technology Committee carefully reviewed the goals, objectives, strategies, evaluation instruments, benchmarks and timelines described for each component of the Plan and used them to create the overall monitoring and evaluation system. The Committee considers it essential to make ongoing revisions of each component at least annually and will use the data collected for each component to monitor and evaluate progress toward achieving stated benchmarks. Care will be taken to determine areas needing improvement and to develop strategies for plan modification accordingly. The Committee will share with stakeholders the results from various monitoring processes and solicit their feedback. Together they will examine whether or not the Technology Plan has had a positive impact on student achievement, whether or not the plan was implemented according to the timeline, and whether progress has been made in the integration of technology into the curriculum. Student achievement will be measured through STAAR scores, benchmark testing, attendance, high school completion, percentage of students retained at grade level, and grade point averages. Surveys, interviews, and focus groups will be used to measure teacher progress in integration of technology. Evaluation results will be used to revise the plan for the following year and adjust the timeline for implementation if necessary.

## Evaluation Method:

Zephyr ISD goes through a regular and systematic process to monitor the progress of student learning and achievement. At the beginning of each school year each campus presents a site plan for review by the Superintendent. The purpose of the school site plan is to improve student learning and achievement through a systematic approach to curricular improvement and instructional pedagogy. Specific data is assessed on a year-to-year basis with benchmarks measured throughout the year. The district's administration regularly examines student data including standardized test results and the information is used in creating the school site plans. The information obtained through the monitoring and evaluation of the Technology Plan will provide additional school and district data to improve and modify instructional methodology and curricular objectives. The information will be made available to and shared with, district staff members, parents, and community members. Zephyr ISD staff will work with the district technology committee to monitor the progress being made at each school site towards the goals outlined in this plan. These staff members will produce a summary report at the end of each year that will include information regarding each program component. The report will document implementation issues, provide analysis of quantitative data, describe qualitative data, and include recommendations and modifications to the plan for the goals not met. The report will evaluate the overall impact of the district's effort to implement the Technology Plan, and its findings will provide direction regarding allocation of resources for technology; it may also identify possible professional development needs and provide the impetus to look for collaborative partners. Evaluation results will be reported to the District's Board of Directors and the Superintendent and will be used by the Technology Committee to revise the plan for the following year and adjust the timeline if necessary. Evaluation of the Technology Plan will be a systematic ongoing process. All aspects of the Plan will be evaluated formally two times each year in November and May. The Technology Plan 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 will be given to the Superintendent and the Board of Directors after each formal evaluation occurs. Zephyr ISD's STaR Chart results for each campus will be used to help Zephyr ISD assess its progress toward meeting the goals of the Long Range Plan for Technology. Scores from standardized testing, such as STAAR, will also be used to help evaluate the effectiveness of our school technology programs. Other methods used for evaluation will include:

- Surveys of the staff conducted yearly in regards to their use of technology in the classroom Informal interviews conducted once a year by the campus Technology Plan Committee representative
- 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

## Appendix

**Attachment item A:**

Zephyr ISD Technology Internet Use Policy

Document: <https://zephyrisd.net/wp-content/uploads/2019/08/Zephyr-ISD-Student-Code-of-Conduct-2019-2020.pdf>

**Attachment item B:**

Zephyr ISD Student Code of Conduct

PDF file:  <https://zephyrisd.net/wp-content/uploads/2019/08/Zephyr-ISD-Student-Code-of-Conduct-2019-2020.pdf>

**Attachment item C:**

Zephyr ISD Student Handbook

PDF file:  <https://zephyrisd.net/wp-content/uploads/2019/08/Zephyr-ISD-Student-Handbook-2019-2020.pdf>

**Attachment item D:**

Zephyr ISD Board Policy Manual

Web site: <http://pol.tasb.org/Home/Disclaimer/237>

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ZEPHYR ISD does not discriminate on the basis of sex, disability, race, color, age, or national origin in its educational programs, activities, or employment as required by Title IX, Section 504 and Title VI.