Technology Plan:

ELIZABETHTOWN INDEPENDENT SCHOOLS

2018-2019

Elizabethtown, Kentucky



<http://www.etown.k12.ky.us/>

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Acknowledgments

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**Executive Summary**

Elizabethtown Independent Schools is a high performing district with a history of excellence. The district contains one high school, one middle school, two elementary schools, an alternative education center, a residential facility, and a Pre-K facility with a total district student population of approximately 2500 students.

The district has a Wide Area Network (WAN) that connects every building to each other and the Internet. Each building has a Local Area Network. The district has a computer and phone in every classroom, with an overall ratio of one computer for every 1;1 students. Nearly every district classroom is equipped with Intelligent Classroom technology.

The district’s technology goals are focused on improving student learning and communicating with our parents and community. This requires a robust network of voice and data assets that are modern and sustainable and includes items like email communication, current and informative web pages, parent portals, One-Call Now communication, Twitter feeds, Facebook, etc.

This year there will be a focus on improving the use of technology tools to improve classroom instruction.

**Technology Vision and Goals**

The primary objective of the district’s technological assets is to support the instructional program so that every student is afforded the opportunity to meet the expectations espoused by former superintendent T.K Stone – “For each child all that he is capable of becoming.” In the technological environment we ensure this by providing our staff and students the necessary technology tools and training.

**Goal 1**

Increase student learning by increasing thinking and problem-solving skills through the use of modern technology tools/equipment to analyze information and provide a variety of worldwide instructional and learning resources.

**Action Plan: Strategies/Activities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Strategy/Activity | Instructional Outcome | Evaluation | Timeline | Person(s) Responsible | Funding Source |
| Provide schools with modern equipment | Insure students and staff can adequately access network and Internet |  | Jul 1, 2018 to Jun 30, 2019 | DTC’s, STC’s, and Principals | KETS, General Fund |
| Provide local and web based software that challenges students and enhances learning | Improved student achievement | School evaluation and refunding of successful programs | Jul 1, 2018 to Jun 30, 2019 | Principals, STC’s, School Staff | KETS, General Fund, School Funds |

**Goal 2**

Ensure parental access to school, administration and teachers via technology and remove time, place and distance barriers to communication (KDE Master Plan). Provide a responsive and robust technological environment that supports learning and administration while ensuring the safety of our staff and students

**Action Plan: Strategies/Activities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Strategy/Activity | Instructional Outcome | Evaluation | Timeline | Person(s) Responsible | Funding Source |
| Use One-Call, Twitter, etc. to provide district updates for parents | Parents better informed, increased parental involvement | Parental feedback | Jul 1, 2018 to Jun 30, 2019 | DTC, School Principals, SISC | General Fund |
| Provide Infinite Campus Portal Service (and mobile app) to Parents | Parents have immediate access to student grades, discipline, etc | Parental feedback | Jul 1, 2018 to Jun 30, 2019 | DTC, School Principals, SISC | General Fund |
| Provide local and long distance voice service for our staff (voice capability in every classroom) | Improved communication between staff, student and parents | Availability of voice lines in all classrooms | Jul 1, 2018 to Jun 30, 2019 | DTC | E-Rate & Gen Fund Monies |
| Provide Internet access to all staff and students (Internet availability in every classroom) | Internet availability; improved student learning | Availability of Internet in all classrooms | Jul 1, 2018 to Jun 30, 2019 | DTC, District Network Engineer | E-Rate & Gen Fund Monies |

**Student Technology Literacy Skills**

Provide students with technology skills and the opportunity to use these skills. The goal is for students to reach proficiency by Grade 8.

Link to the Program of Studies: [http://www.education.ky.gov/kde/instructional+resources/curriculum+documents+and+resources/program+of+studies/default.htm](http://www.education.ky.gov/kde/instructional%2Bresources/curriculum%2Bdocuments%2Band%2Bresources/program%2Bof%2Bstudies/default.htm)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |

**Goal 1**

Ensure a safe networking environment for our students.

**Action Plan: Strategies/Activities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Strategy/Activity | Instructional Outcome | Evaluation | Timeline | Person(s) Responsible | Funding Source |
| Provide software/hardware for overall network protection | Blocking of inappropriate sites |  | Jul 1, 2018 to Jun 30, 2018 | DTC, District Network Engineer | General Fund |
| Provide training to students on digital citizenship | Student understanding of the roles and potential dangers of the internet |  | Fall 2018 | STC’s; Media Specialists; Principals and teachers | General Fund (as needed) |

**Integration of Technology into Curriculum and Instruction**

Like text books and white boards, technology is another tool that teachers should use to enhance instruction.

**Goal 1**

Integrate innovative technology into all content areas at all grade levels while promoting the use of research-based technological applications and strategies. Encourage the use of tools like Moodle to integrate technology into the classroom.

**Action Plan: Projects/Activities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project/Activity | Instructional Outcome | Evaluation | Timeline | Person(s) Responsible | Funding Source |
| Continue creation of new and collection of current resources to supplement and replace outdated textbooks | Students will have current content in each subject area |  | Ongoing-Focus will begin at the high school | DTC, STC’s, Principals, media specialists, teachers | A majority of free textbook sites will be utilized along with purchased content, KETS, General fund |
| Regular district meetings with LMS staff to collaborate on seamless, continuous integration of technology | Teachers and students will have a continuum of technology skills and develop a higher sense of how technology enhances content |  | July 1, 2018 to Jun 30, 2019 | DTC, STC’s, Principals, media specialists, teachers | KETS, General fund |
| Increase student participation in STLP Achieve Gold Status for 75% of schools | Students will go beyond the minimum requirements of classroom content and develop higher level projects and conduct in-depth research. | Level of participation at the regional and state levels will indicate increased participation | July 1, 2018 to Jun 30, 2019 | Media specialists, teachers, DTC, STC’s | KETS, General Fund |
| Allow students to utilize personally owned devices | Create a more seamless integration of technology tools in the classroom by having technology available as needed |  | July 1, 2018 to Jun 30, 2019 | DTC, Network Engineer | KETS, General fund |
| Monthly meetings with STC’s, to share information and to share new developments in technology and how to integrate them | Increase teacher resources through the STC’s |  | July 1, 2018 to Jun 30, 2019 | DTC, STC’s |  |
| Continue support of one to one initiative with high school | Increase student access of technology. Replace outdated equipment utilizing a four year lease | Student and staff surveys | Aug. 1, 2018-June 1, 2019 | Administrators, teachers, support staff, DTC, STC, LMS, Parents | KETS, Local, Education Foundation |

**Staff Training/ Professional Development Goals**

Today’s PD focus is on the use of small group or one-on-one instruction centered on classroom utilization. Small group instruction allows the instructor to focus on the specific needs of the staff member and alter their instruction accordingly. The instructor can look at the individual teacher’s curriculum and use real world applications as part of the training. This technique can frequently be conducted in the teacher’s classroom and provide some comforting familiarity for the teacher.

School Media Specialists and STCs are the primary professional development trainers for the school. Their goal is to improve student achievement by allowing teachers to incorporate new technology skills through application of new skills into students’ education plan and utilization of technology tools to become more efficient classroom managers. Because time is a limiting factor for Media Specialists and STC’s, a full or part time district technology trainer would greatly improve the professional development of all staff.

With the integration of Intelligent Classroom equipment into the district, the schools have been obtaining and conducting additional PD in small groups and with vendor trainers. Some teachers provide training for staff on Infinite Campus

**Goal**

Improve student achievement by allowing teachers to incorporate new technology skills into the classroom.

**Action Plan: Strategies/Activities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Strategy/Activity | Instructional Outcome | Evaluation | Timeline | Person(s) Responsible | Funding Source |
| Provide school small group instruction to staff throughout the school year | Increased technology use and higher level of skills | End of Year Self Evaluations by Teachers |  Jul 1, 2018 to Jun 30, 2019 | Media Specialists, SISC | Local funds |
| Arrange for outside PD for new software | Increased technology use and higher level of skills | Teacher Evaluation of training | Jul 1, 2018 to Jun 30, 2019 | DTC, Principals | Local funds |
| Attend technology trainings out of district | Provide train-the-trainer opportunities | Principal evaluation | Jul 1, 2018 to Jun 30, 2019 | DTC & Principals | Local funds |
| Encourage staff to pursue Google Certified educator status | Equip staff to better support Google Classroom implementation and Google tool usage | Number of certified staff members at year’s end | Jul 1, 2018 to Jun 30, 2019 | Instructional staff |  |
| Encourage Help Desk students to pursue Google Certified educator status | Equip Help Desk to better support Google Classroom implementation and Google tool usage | Number of certified Help Desk students at year’s end | Jul 1, 2018 to Jun 30, 2019 | Help Desk teacher | Sponsors |

**Current Technology and Resources**

**Assets**

Staffing

 District level

 Director of Instructional Technology

 Network Engineer

 School level

 High School – one full-time STC; one full time Media Specialist

 Middle School – one Media Specialist

 Elementary Schools – Full-time STC at MES; part time STC (HHE) and

 full-time Media Specialist at both schools

 Panther Academy & VV Educational Center – Part-time STC; full-time Media Specialist (PA)

District Level

 WAN with Fiber point to point connections to every building

 250 Mb/s connectivity to Internet (state provided - KEN)

 Infinite Campus for student Attendance, Grades, Scheduling, Discipline, Parent Portal

 Data analysis programs

 Munis financial software

 Internet filtering/blocking hardware/software

 Windows upgrading software and Anti-virus software (WSUS)

 Computer imaging software

 Computer, printer access and phone access for all staff

 One Call Now phone notification system

School Level

 Five school buildings, two Educational Centers

 EHS, TKS, HHE, MES, Panther Academy and VV have internal LAN’s and fiber

 connectivity

 Glen Dale Center has T-1 connectivity

 100% of district ports are switched

 Wireless Connectivity (districtwide)

Computer phone in every classroom (Nortel sys in EHS, TKS and VV; VOIP

 in PA and HHE)

 1 to 1 Student to computer ratio

 Ten full computer labs, three mini labs, three mobile laptop labs

 Technology integrated into classrooms (Word processing, Excel and PowerPoint, Google Classroom, Google Docs, Sheets,

Slides)

 Internet available in every classroom and lab

 Infinite Campus for student Attendance, Grades, etc.

 Individual Learning Plan for all students, Grades 6 - 12

 Computerized food service program

 Computerized bookkeeping

 Computerized library program (Follett Destiny)

 Staff and student email(Switched to Gmail 4/19/2018)

 STLP programs in all buildings

 100% of elementary classrooms have Active/Smart boards, projectors and document cameras

 APEX, JCPS and Novel Stars Distance Learning

 Money allocations for each school are based on the school’s ADA. Each school’s Technology Committee evaluates the school’s needs, prepares a technical plan and purchases equipment and software for their school.

**Needs Assessment**

The primary need for technology is to sustain our success from KETS Phase I and increase the use of technology by students and staff in KETS Phase II to:

* Improve student learning
* Improve staff efficiency and productivity
* Enhance parent/staff communications

Consequently, the Needs Assessment is:

**ELIZABETHTOWN INDEPENDENT SCHOOLS**

**TECHNOLOGY NEEDS ASSESSMENT**

**2017-2018**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Unfunded Need** | **Rational** | **CDIP Action Component** |
| 1 | Continue classroom and building high speed interconnectivity | Current contract with Brandenburg for fiber connectivity between schools and EHS. Provides WAN for district. 80% discounts come from USF |  |
| 2 | Continue telephone line access for all classrooms and administrative offices | Basic and long distance phone service for all district offices and classrooms. Provides for staff coordination with parents, safety, etc.  |  |
| 3 | Contract to have vendor create web sites for all schools | District website was contracted out to SchoolPointe. Schools still maintain own sites Annual cost is $3000  | Strategic Plan – Family and Community Partnerships |
| 4 | Continued Implementation of BYOD program | Implementation of BYOD program | Strategic Plan – Ensuring Quality Teachers |
| 5 | Add additional Access Points for classrooms districtwide  | Improve WiFi performance, provide 5ghz coverage to support 1:1 |  |
| 6 | Upgrade Office version across district |  |  |

**Evaluation**

The district uses several different strategies to evaluate the success of the technology program. Among these initiatives:

Student Tests. In the past technology tests have been administered to students in the 5th, 8th and 12th grades. These tests were designed to evaluate student performance at exiting grades to insure that basic technology goals are being attained. The district is in the process of evaluating the test and is focusing on 5th, 8th and 12th grade students.

End-of-Year Teacher Assessments. The past five years the district conducted a teacher survey to assess individual teacher skills. This survey provides invaluable insight into the status of the district technology program. Among the issues addressed:

Evaluation of teacher’s individual skill level

Evaluation of the student use of technology in the classroom

Evaluation of maintenance support

Teacher evaluation of school and district needs.

This survey helps guide procurement, maintenance strategies and focus Professional Development.

School Year: 2018-2019

*Annual Budget Summary*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Acquired Technologies and Professional Development** | **E-Rate** |  | **KETS**  | **KETS MATCH (GF)** |  | **GF Tech** | **Other** | **Other** **Fund Code** |
| School Hardware – Workstns, prntr |  |  | $35,000 | $35,000 |  |  | $10,000 Education Foundation |  |
| School Hardware – Licenses |  |  |  |  |  | $10,000 |  |  |
| School Hardware – Phones |  |  |  |  |  |  |  | *Gen Fund – 0011100 0734)* |
| School Hardware - Wireless |  |  | 3000 | 3000 |  |  |  | *Gen Fund – 0011100 0734)* |
| School Hardware – Chromebooks at high school |  |  | 18000 | 18000 |  | 12,000 | Ed. Foundation $10,000Textbook fees $11,000 | *KETS, Gen. Fund, Education Foundation* |
| District Hardware – Workstations, printers |  |  |  |  |  | $8,000 |  | *(Gen Fund – 0011100 0734)* |
| LAN/WAN – Switches, wiring, etc |  |  |  |  |  | $30,000 |  |  |
| District Shared – Salaries |  |  |  |  |  |  | $250,000 | *Cert/Class Pay* |
| District Shared – Telco (Data) | $24,210 |  |  |  |  |  | $9,810 | *0011100 0532* |
| District Shared – Telco (Voice) | $30,000(est) |  |  |  |  |  | $10,000 (est) | *0011100 0533* |
| District Shared – PD Training |  |  |  |  |  |  |  |  |
| District Shared – Hard Maint |  |  |  |  |  |  | $17,000 | *(Gen Fund – 0011100 0434)* |
| District Shared – Soft Maint |  |  |  |  |  |  | $27,000 | *(Gen Fund – 00111 0648 & 0101918 0648)* |
| **TOTAL** | **$54,210** |  | **$50,000** | **$50,000** |  | **$53,000** | **$303,810** | **$511,020** |

**Appendix A – Strategies to Support Goals**

A variety of technology strategies and resources are required to assure that these goals are achieved. These include:

*Providing a robust Supporting Infrastructure*

A robust infrastructure is required to ensure that students and staff have timely access to the district network, email and the Internet. This infrastructure includes cabling, wiring closets, closet electronics, and voice and data connections.

In KETS Phase I, access speeds of 56 to 384 kbs were adequate for information accessibility. With the explosive growth of the Internet, the number of computers in the classroom and the state’s move to the new Active Directory structure, greater bandwidth for the district is a necessity. Consequently, the district continually strives to upgrade its infrastructure. The district has upgraded each school to fiber connections with a 25 mbs connection from the district to the state.

*Ensuring Equipment Modernization*

The district reached and exceeded the KETS computer requirements during Phase I (one computer per teacher, one computer for six students). To ensure that students and staff have the requisite tools to reach our goals and are prepared for their future, it is imperative that the district modernize its equipment on a regular basis. To accomplish this goal, the district has developed and budgeted a six-year modernization plan to provide high-speed access to internal networks and the Internet.

*Provide Quality Professional Development for staff*

Technology PD is conducted through one-on-one interface, small and large group instruction, classroom activities and outside training.

Technology tests have been conducted to assess teacher and student technology levels and PD planned and conducted accordingly.

*Ensure Integration of technology into the classroom*

The ultimate test of technology utilization is the degree to which it is integrated into the classroom as defined by student use of technology to enhance their education.

The district has undergone a major overhaul of its curriculum through a series of curriculum alignment processes. As part of this alignment, teams have included activities to help teachers fully integrate technology into the classroom.

To evaluate the effectiveness of use of technology, students are tested at 5th, 8th and 12th grades to evaluate their capabilities on several technology skill tests.

*Maintain Hardware and software*

Bandwidth and hardware will be useless unless it is operating properly – consequently a network, hardware and software maintenance plan is essential.

The district’s maintenance approach emphasizes repair at the lowest level possible. Repairs are escalated from the classroom teacher to the building STC to the district technology team for repair service. Adequate funds are identified to support these efforts.

Hardware and software maintenance contracts are maintained on critical applications, including, Infinite Campus, Lunchbox, Follett, McAfee, Enterasys, Munis, Netspective, and movie licenses.