

Request to Place an Item on the AgendaName: Mat LoughAddress: 265 AirfieldTelephone number: 270 265 2436Name of school children attend, if applicable: DistrictGroup represented: DistrictCheck if request was submitted to: ☐ Superintendent ☒ Board Chairperson

Conferred with following administrators (names): _____

Approve D 2018-2019 Technology PlanDescription of Issue: Approve Technology Plan

Specific Action Requested: _____

Check if you are: ☐ Board Member ☒ District Employee ☐ Community Member

All requests for items to be placed on the agenda must be submitted to the Superintendent prior to the Board meeting as specified in Board Policy 01.45. Items submitted shall require prior approval of the Superintendent.

Review/Revised: 3/13/06

2018-2019 Technology Plan
Todd County
Elkton, Kentucky



<http://www.todd.kyshschools.us>

Creation Date: May 1, 2018

As per the SLD: The technology plan creation date is the month and year the technology plan was written, not the date when you began to develop or draft it. The SLD defines the creation date as the date it first contained the five required elements in sufficient detail to support the services requested on your Form 470. The creation date must be prior to the date the Form 470(s) is posted.

Plan Start Date: July 1, 2018

Plan Expiration Date: June 30, 2019

Acknowledgments

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Executive Summary

The Todd County School District Technology Plan was developed through a committee process involving stakeholders from across the district. Members of the Technology Department, including the CIO/DTC, District Site Base Technicians, school administration, district administration and teachers representatives. The technology plan will be evaluated and measured against the goals stated within this plan to ensure successful technology implementation across the Todd County School District. The Todd County School District Technology Plan is reviewed and updated annually. In order to achieve the goals and strategies outlined in this plan, educators must have varied opportunities for ongoing and continuous training in the integration of technology tools to ensure equity of learning and access for all.

In order for teachers to keep pace with our students who are the digital natives within an ever-changing digital society, they must seamlessly implement technology into their daily instructional practices. The Todd County School District strategies describe activities that improve the capacity of all teachers in the schools served by the district to integrate technology effectively into curriculum and instruction.

In accordance to the Kentucky Academic Standards and International Society for Technology in Education (ISTE) Standards, our strategies for Todd County School District students and teachers will foster a community of learning and integration of technology and devices. By building and maintaining a strong infrastructure, as well as staying ahead of continually changing standards, a continual challenge is provided to teachers and the district to creates an environment where teachers and students become more proficient in using a wide variety of tools to enhance learning, critical thinking skills, communication, collaboration, productivity and creativity.

With the advances in technology that our students and staff are experiencing, it requires the support of the Technology Department in cooperation with the administration, teachers, staff, as well as the students, parents and community. Being able to advance in these areas will determine the success of this technology plan.

Planning Process and Methodology

Our District Technology Committee meets monthly throughout school year to define and develop our District Technology Plan. There are also site based technology committees that meet at the school level regularly to establish their goals and objectives to correlate with the District's vision. We are continually assessing our technology and professional development to ensure that we are staying in line with the standards for students and teachers.

Surveys are conducted throughout the year providing the technology department and technology committee with feedback from both students and staff to help us ensure that we are meeting their needs. The committee strives to keep in constant communication with all stakeholders, bringing their valuable feedback to the table at our monthly meetings. This feedback enables us to continually improve and maintain a vision for Todd County School District Technology Department to ensure we are meeting the needs of all stakeholders.

Current Technology and Resources

Our teachers are embracing the many new technologies and other resources which will continue to benefit instruction. Resources and funding have been committed to providing a strong infrastructure to support the District. All schools and facilities in the district are networked with full telecommunication and internet access. The district's network is on fiber optic backbone running at 1Gbps, plus all five sites have full wireless saturation. The District Technology Department is comprised of two Site Based Technician (SBT) serving as the first line of technical support for users. They are responsible for the daily maintenance and hardware support to keep their systems up and running. The Chief Information Officer (CIO)/District Technology Coordinator (DTC) is responsible for the administration side, network and security administration, as well as supporting teachers and staff with professional development. The Instructional Supervisor is responsible for the infusion of the technology into the daily curriculum; they work closely with the Principals to ensure their staff has adequate Professional Development and staff training to effectively use technology as a teaching tools.

Curriculum and Instructional Integration Goals

Goal 1

Instructional staff will improve technology awareness and consistently implement technology into the practices.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible
A survey/assessment will be given annually to all teachers to assess how technology is being used in our building. The data from the survey will be reported to the building Principal and CIO.	Data will be used to improve professional development and provide additional assistance and resources where needed	Technology assessment data	Ongoing	Principals Teachers
Continue to provide professional development training on approved software, web applications, Microsoft 365 Suite, G-Suite, flipped/blended, multimedia, and assessment tools.	Instructional staff is better prepared to integrate applications into instruction, while increasing student and parental accessibility, communication, and involvement.	Instructional Plans TIS Reports Professional Development Attendance Usage Reports Monitoring by District Leadership	Ongoing	Teachers Principals District Administration CIO/DTC
Expand and explore Computer Information Technology program opportunities to college and career pathway students.	Develops critical thinking while preparing for the technical work-force or furthering educational opportunities.	Achieved Certifications Progress through Formative Assessments TEDS	Ongoing	Teachers Career Counselor Guidance Counselor Principals District Administration CIO/DTC

Goal 2

Administration will model the use of technology in their daily administrative tasks.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible
Administrators will model appropriate use of technology for staff in their building	Appropriate modeling of technology use	Administrative evaluations and professional growth plans	Ongoing	Principals Superintendent Instructional Supervisor
Administrators will meet regularly with CIO, school technology team member or other designee to receive training and one on one coaching/mentoring	Advancing the knowledge and use of technology by the Administrator models appropriate use, creating the expectation for effective and proper use from the top level down	Administrative evaluations and professional growth plans	Ongoing	Principals District Leadership CIO

Curriculum and Instructional Integration Goals – Evaluation

- 1) Development and utilization of innovative strategies for the delivery of specialized or rigorous academic courses and curricula through the use of technology, including distance learning technologies.

We implemented a technology component that consisted of programming and certification opportunities to help encourage College and Career Readiness in the area of technology as well as give students a differentiated (specialized) learning path. Distance learning technologies have also been implemented throughout the district with use of dual credit opportunities that allows for students and teachers to reach beyond the classroom walls and possible limitations in district resources.

- 2) How these goals for using advanced technology to improve student academic achievement aligned with the Kentucky Core Academic Standards and goals for College/Career Readiness?

Our students will be prepared for using technology tools and resources for writing, research, and project-based skills that align to the KY Academic Standards and meet the goals for College/Career Readiness because our district academic goals align to 21st century learning and achievement. By increasing technology access and usage, we are developing critical thinking skills while preparing our students for the technical work force and possible educational opportunities that require a high level of technological expertise.

- 3) Our evaluation process will enable the district to monitor progress toward the specified goals and make mid-course corrections in response to new developments and opportunities as they arise.

Indicators and accountability measures will be used to evaluate the extent to which activities are effective in integrating technology into the curricula and instruction and enable students to meet challenging state academic standards. Detailed learning plans that follow district curriculum maps are used to document progress. These plans must adhere to KY Academic Standards and evidence such as student work, assessment, and items posted on their individual websites must demonstrate mastery of each of the KCAS. Digital projects are a huge component in the KY Academic / ISTE Standards and true integration of technology must be evident when observations take place. Career certification documentation is also an indicator of the district's progress toward raising student and teacher academic achievements.

- 4) In our evaluation process, we will use data from indicators listed above. If goals are not met then a plan will be created to meet the remaining goals. Data obtained from these goals will come from observations, academic achievements, and technology planning and usage. This data will be shared with appropriate personnel and stakeholders as needs arise.

Student Technology Literacy Goals

Goal 1

Increase technology use in the classroom to improve student engagement and achievement.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible
Support the use of Microsoft Office 365 for anytime/anywhere access to the storage of files.	To provide anytime, anywhere access to students' work. Provide opportunity for students to learn a suite of skills they will use in the school and work environment.	Observations Usage Logs Microsoft Office 365 Admin Console	Ongoing	Teachers Principals District Administration CIO/DTC
Support the use of G-Suite for anytime/anywhere access to the storage of files.	To provide anytime, anywhere access to students' work. Provide opportunity for students to learn a suite of skills they will use in the school and work environment.	Observations Usage Logs Google Admin Console	Ongoing	Teachers Principals District Administration CIO/DTC
Continue to support the Student Technology Leadership Program (STLP).	Increased student engagement Increased student involvement Increased student motivation and collaboration.	Regional and state competition participation, and student products	Ongoing	Teachers STLP Coordinators Principals District Administration CIO/DTC
Promote a paperless learning environment; thereby conserving consumable resources.	Provide anytime, anywhere learning in a digital environment.	Observations	Ongoing	Teachers Principals District Administration CIO/DTC
Support the use of approved instructional/educational software to meet the individual	Increase Student Proficiency in 21st Century Skills and differentiated instruction	Student Products Student Usage Assessment	Ongoing	Teachers Principals

needs of teachers/ students. Ensuring all new software purchases meet data security and copyright criteria.	practices.	RTI Reports		District Administration CIO/DTC
Incorporate education for all students on Digital Citizenship. See the District Acceptable Use Policy (AUP).	Increased incorporation and self-monitoring of digital citizenship to become productive and responsible users of digital technologies	Classroom Observations and formative assessments	Ongoing	Teachers Principals District Administration CIO/DTC
Provide Internet filtering to maintain compliance with the Children's Internet Protection Act (CIPA).	Encourages students to become responsible Internet users. Our goal is to limit internet filtering and enforce appropriate use, while continuing to restrict inappropriate material under CIPA.	Customized Internet reporting tools monitored by CIO/DTC and Principals for monitoring of their school's internet activity	Ongoing	Teachers Principals District Administration CIO/DTC

Student Technology Literacy Goals – Evaluation

- 1) How the steps and activities being implemented assure that students are meeting the expectation of technology literacy by the 8th grade.

We are supporting, facilitating, and implementing learning opportunities such as digital citizenship and STLP for individualized and differentiated learning. Technology literacy by 8th grade will be achieved through the continuous implementation and integration of technology in the KY Academic and ISTE Standards.

- 2) How the goals support the enhancement of students' 21st Century Skills of critical thinking, communication, collaboration, and creativity.

These goals support the 21st Century Skills because they provide anywhere, any time learning for our students across multiple mobile learning platforms and devices. Increased incorporation of technology critical thinking, communication, collaboration, and creativity skills into learning plans and aligned with the KY Academic standards help develop a technologically literate student.

- 3) The instructional materials or electronic resources needed to support strategies.

Instructional resources are sent as needed by the CIO/DTC, school administrators, and school teacher leaders.

- 4) The process for gathering and using data from indicators listed above and what actions will be taken if expected results are not met. With whom will the data be shared?

Student products, RTI reports, Internet usage reports, anecdotal evidence, observations, virtual curriculum consultants at each school for feedback and STLP competition participation are areas where technology documentation is represented. If some of these goals are not met, then a plan will be created to meet the remaining goals. Data obtained from these goals will come from observations, academic achievements, and technology planning and usage. This data will be shared with appropriate personnel and stakeholders as needs arise.

Staff Training/Professional Development Goals

Goal 1

Job-embedded and program specific professional development will be provided to district staff on an as needed basis through one-on-one meetings or large group presentations.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible
School technology purchases will adhere to district technology plan by providing an instructional need, ongoing professional development for full integration, a plan for technological support that meets the district infrastructure.	New technology hardware and software is fully integrated into instructional practices and used regularly to meet learning goals.	Evaluating purchases to show effective and efficient use of technology integration tools Usage Reports Professional Observations	Ongoing	Teachers Principals District Administration CIO/DTC
By providing new technology hardware and software to schools, the schools will be required to incorporate training and ongoing support from the district.	Professional Development is provided to ensure new technology hardware and software is fully integrated into instructional practices and used regularly to meet learning goals.	Professional Development Attendance Usage Reports Professional Observations	Ongoing	Teachers Principals District Administration CIO/DTC

Staff Training/Professional Development Goals – Evaluation

- 1) What is the current ability level of staff to utilize technology and the increases in competencies sought through professional development activities?

Staff members that have interactive classroom components are proficient when using for instructional purposes. PD is provided to increase instructional proficiency at each school. Administrators also model teacher tools and resources that align with and meet the embedded technology components in the KY Academic and ISTE Standards. Additional school wide and district wide professional development opportunities are made available to staff members that need and want additional training, resources, and tools to help meet the technology and KY Academic / ISTE Standards.

- 2) What are the topic(s) and nature of the training to be made available to staff?

All technology trainings are aligned to KY Academic / ISTE Standards, instructional integration, and differentiated tools that will meet the individual student needs.

- 3) What methods will be used to provide the training (e.g. just in time, after school/summer workshops, train-the-trainer, off-site training, conferences, etc.) and the procedures to document training?

Trainings are provided through after school PD's, summer workshops, train-the-trainer, job-embedded, and one-to-one formats. Training is documented through school based management systems and certificates of completion.

- 4) The connections between training to be offered and the curriculum goals of the district will be?

As stated in #2 above, all technology trainings are aligned to KY Academic / ISTE Standards and/or TPGES Domains 1 and 3, and differentiated tools that will meet individual student needs.

- 5) What are the training opportunities for technical staff?

Our technical staff is mainly self-trained; however trainings take place on an "as needed" basis with new or emerging technology developments.

- 6) What are the indicators and accountability measures that will be used to evaluate the extent, to which PD activities are effective in promoting integration of technology into the curricula and instruction, enhance the ability of teachers to teach, and enable students to meet challenging state academic standards?

As stated in #1, staff members that have interactive classroom components are proficient when using for instructional purposes. Administrators also spend time with the teachers, modeling tools and resources that align with and meet the embedded technology components in the KY Academic / ISTE Standards. Additional school wide and district wide professional development opportunities are made available to staff members that need and want additional training, resources, and tools to help meet the technology and KY Academic / ISTE Standards. As stated in #2 above, all technology trainings are aligned to KY

Academic / ISTE Standards, interactive classroom instructional integration, and differentiated tools that will meet the individual student needs.

Technology Goals

Todd County students will be exposed to and become proficient in the use of various technologies to enhance their learning experience and equip them with 21st century skills. Communication will improve with community websites, school website and online newsletters. Todd County Schools will make its campuses accessible to students and parents alike may have access to the internet by creating a “guest” network at each campus.

Goal 1

Improve reliability and accessibility of information technology for the students, staff and other stakeholders.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible
Support the use of Microsoft Office 365 for anytime / anywhere access to the storage of files.	Facilitate the ease of mobile access	Observation User Feedback	Ongoing	CIO/DTC
Support the use of G-Suite for anytime / anywhere access to the storage of files.	Facilitate the ease of mobile access	Observation User Feedback	Ongoing	CIO/DTC
Maintenance for the fiber optic network and related components, computers, servers and hardware.	Reliable network infrastructure to meet current and future demands.	Network Reports	Ongoing	CIO/DTC
Maintain Microsoft Office 365 for the latest version of MS Office and other Microsoft products for district.	Increase access to the latest instructional resources.	Deployment and updates by the district	Ongoing	CIO/DTC
Provide Internet filtering to maintain compliance with the Children's Internet Protection Act (CIPA).	Internet Safety for All Stakeholders.	Customized Internet reporting tools monitored by CIO/DTC and Principals for monitoring of their school's internet activity	Ongoing	Teachers Principals District Administration CIO/DTC
Support and promote state mandated curriculum,	Communicate and educate district users on proper	Professional Development	Ongoing	Teachers

assessment, and instruction resource programs (e.g. ASSIST, Infinite Campus, End of Course Assessments, ACT, KPREP).	implementation of these state initiatives to meet the KDE requirements	One on One Trainings		Guidance Counselors Principals District Administration CIO/DTC
Support approved computer lab monitoring software for labs and devices at district schools (Impero Software).	Increased student engagement, monitor Internet safety, and allows interactivity with students.	Classroom Observations	Ongoing	Teachers Principals District Administration CIO/DTC

Goal 2

Improve communications between the school, parents and the community.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible
Promote electronic communication with parents and the community via district, school and teacher websites, BCPS e-news, e-mail, school app, Google Classroom, school signs and social media outlets	Increased Parental Accessibility, Communication, and Involvement. Students achieve at a higher level when parents have a greater awareness of the educational process and can appropriately support it.	Website usage Communication Logs	Ongoing	Teachers Principals District Administration CIO/DTC
Promote and support the continued use of mobile data storage, anytime / anywhere learning	Allow all stakeholders access to district resources to improve instructional outcomes	Teacher student interactions Communication Logs Data Usage and access logs	Ongoing	Teachers Principals District Administration CIO/DTC

Technology Goals – Evaluation

- 1) How will the activities identified above support the district's vision for an up to date, technology-rich educational environment?

By providing dual credit opportunities, expanding the use of Chromebooks district wide, continually updating and upgrading interactive classroom components, and introducing teachers and students to new web based tools, we are providing a technology-rich educational environment that supports college and career readiness and 21st century learning skills.

- 2) What are the technical standards used to ensure compatibility of interconnected systems?

Teachers and school administrators collaborate to develop learning plans that align to the embedded technology components within the KY Academic / ISTE Standards. Plans allow for high level, critical thinking and educational development to take place. The technical standards provide us with a template to build an infrastructure that supports the ever-growing and changing technological world. These inter-connected systems allow for global learning to take place and students to achieve high standards of learning.

- 3) What are the technology needs to maintain or enhance the current instructional environment?

Implementation and integration of numerous technology tools and resources play an important role in the education of our students. Access to a strong Wi-Fi Network allows increased access to our school and district infrastructure.

- 4) What are the indicators and accountability measures that will be used to evaluate the extent to which technology deployment and support activities are effective in promoting integration of technology into the curricula and instruction, enhance the ability of teachers to teach, and enable students to meet challenging state academic standards?

Staff members that have interactive classroom components are proficient when using for instructional purposes. Administrators and teachers spend provide instruction to teachers as needed and requested. Administrators also spend time with the teachers modeling tools and resources that align with and meet the embedded technology components in the KY Academic / ISTE Standards. Professional development opportunities are made available to staff members that need and want additional training, resources, and tools to help meet the technology and KY Academic / ISTE Standards.

2018-2019 Budget Summary

Acquired Technologies and Professional Development	Ed Tech Competitive Title IID	Ed Tech Formula Title IID	E-Rate	NCLB/other than Title IID	KETS	Other (Specify)
Technology Staff salaries					\$66,293	\$78,862 General Funds
Fiber connectivity to all sites			\$32,400			\$6,480 General Funds
Lenovo Lease (estimate) Instructional Devices						\$49,000 General Funds
Lenovo Lease (Estimate) Instructional Labs						\$30,000 General Funds
Infinite Campus						\$13,000 General Funds
Munis						\$7,000 General Funds
Software subscriptions (Renaissance Place, Follett, STI, Scholastic)						\$80,000 General Funds
Web Hosting						\$5,500 General Funds
STLP Stipends						\$2,000 General Funds
Network Equipment Maintenance						\$10,000 General Funds
TOTAL			\$32,400			\$281,842

Budget Summary – Narrative

The technology budget comes from local funds, KETS funds, federal programs (i.e. Title IID), and occasional grants. These funds are also supplemented through the budgets of individual schools and other departments. Likewise, the district depends heavily on the federal Universal Service Fund for assistance with funding telecommunication costs, Internet access, and internal connections on an annual basis. Specific funding needs have been cited in previous sections for the acquisition and maintenance of hardware and software, personnel, and for professional development. In addition to these items, the district also has a maintenance department that provides indirect support to the technology department by installing and maintaining electrical lines, air conditioning, construction of server closets, etc.