

DISTRICT TECHNOLOGY PLAN

DISTRICT NAME Taylor County School District

LOCATION Campbellsville, KY

PLAN YEAR(S) 2020-2021



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Planning Team

District Staff [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, DAC, etc.]	
Charles Higdon, Superintendent	Laura Benningfield, Asst Superintendent
DiAnne Harris, Instructional Supervisor	
Building Staff [Recommended to included principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
Melissa Long, - Principal, Primary Center	Donna Williams- Principal, Intermediate School
Neil Sanders - Incoming Principal, Middle School	Sara Tucker - Incoming Principal, High School
Lauren Phillips - Media Specialist/STLP Coordinator	Austin Yates - LAN Technician/STLP
Additional District Contributors [Recommended to include board members, SBDM members, program directors, etc.]	
Scott Parks/Andy Close - Special Education Director and Assistant	
Students [Recommended to include middle and/or high school students]	
Other [parents/community members, business and nonprofit leaders, etc.]	

Previous Plan Evaluation

The district was largely successful in meeting the goals of most of the 2019-2020 Technology Plan. The district met all goals with the exception of faculty/staff device replacement. Due to budget constraints, the district was unable to replace the planned portion of the faculty/staff.

The district successfully launched the Central Kentucky Career Academy. The renovated building has complete Wi-Fi coverage with a 1 GB fiber link to the main hub site. Subjects taught include Computer Programming, nursing and welding.

What goals were met?

The district leased the number of student devices to meet the planned replacement schedule.

The district provided additional PD addressing the identified classroom and administrative needs, particularly Google Classroom and application training.

The district adjusted the Wi-Fi performance based on reports from building principals and teachers.

The district offered additional computer science courses as a result of a partnership with additional local school districts.

The district implemented an automated account management system for student accounts.

Goals that were not met or didn't have the expected outcomes?

Due to financial restrictions, the district was unable to acquire the planned devices for faculty/staff.

Areas of improvement?

The district increased its use of Google classroom and related Google applications. The principals spearheaded this effort by sharing all faculty/staff resources via Google Drive.

Areas/goals that are no longer relevant?

Needs that emerged after evaluation of the previous plan?

New portable devices for teachers, administrators and identified office personnel are a priority. The COVID-19 pandemic revealed a need for the ability to work securely from a remote location.

The district has also realized a need for additional training in the use of remote learning tools.

New Plan Preview

This is a high-level overview or executive summary of the plan as a whole. Attempt to limit your narrative to the space provided below.

[See [Technology Planning section of KETS Master Plan](#) for more information]

How did you and the planning team decide on the goals for this plan?

The planning team worked closely throughout the year addressing the needs and reviewing the implementations. The technology planning team members are also members of the district administrative team. The COVID-19 pandemic placed additional burdens on all team members and presented new opportunities and learning opportunities for them. In preparation for the final plan, the team met in-person (socially distanced) to discuss plans for the 2020-2021 academic year. With two schools having new leadership next year, this is a great opportunity to more closely align building plans and processes. The district is working toward more consistent application usage providing a more consistent and cohesive implementation and evaluation process.

Briefly discuss the major activities slated for implementation and how these activities will advance curriculum and instruction integration, student technology literacy, professional development, & technology infrastructure.

Each school has identified the software applications they use and the purpose of them. District administration as well as building principals are aware of the applications in use across the district. The district is working with vendors to secure pricing allowing the district to purchase applications for multiple schools (as applicable), allowing more longitudinal instruction and assessment. Nearpod and Case21 are currently being evaluated.

The Primary Center and Intermediate Schools plan to implement a keyboarding program.

The district is evaluating (and will likely implement) the use of Remind101 as the primary means of communication with students and parents. Usage statistics revealed the district's faculty and staff relied heavily on the free app last year. The district would gain significant oversight of the app's usage by purchasing a subscription to the app for the 2020-2021 academic year.

The district will utilize the CARES Act funding to purchase laptops for all teachers.

The district will utilize CARES Act funding to purchase 800 additional student devices.

The district will continue PD for Google Classroom and increase PD for remote learning instruction.

Student Voice

Personalized student learning allows students to develop deeper learning competencies including critical thinking, using knowledge and information to solve complex problems, collaboration, and communication. Capturing student input about their access to opportunities that build these competencies is key to effective technology planning. Please answer the questions in the space provided below.

Do you currently have a method to collect student responses about the digital learning environment? If so, which tool (ex: BrightBytes, Speak Up, survey created by you or the district, other)?

The district utilizes Google surveys to collect survey information.

If you have a method to collect student voice for this purpose, reference specific data points from the collection that were useful in developing strategies for this new plan.

According to student survey results:

80% of the middle school students indicate they have high-speed internet connection at home along with a device capable of streaming a video.

87% of the high school students indicate they have high-speed internet connection at home along with a device capable of streaming a video.

Based on feedback received, the district needs to collect data on additional questions related to home internet access. Individual access to a device for "each" should be identified. The term "device" needs to be clarified to determine if the device is a cell phone or other device such as computer/tablet, chromebook or iPad. In addition, the data should be collected for all students.

KETS Master Plan Areas of Emphasis

Connected to the Future Ready Framework

The Future Ready Framework identifies seven Gears to assist districts in developing a roadmap for student success through personalized student learning and collaborative leadership. The KETS Master Plan has identified 37 Areas of Emphasis connected to the Future Ready Framework and are categorized as either 1) *Areas of Acceleration (AA)* or 2) *Areas of Improvement (AI)*. The “areas of acceleration” are considered big wins, successes, and major milestones of the KETS are identified for continuation work. The “areas of improvement” address emerging areas based upon growth or decline metrics, research, needs assessments, and reporting by Kentucky school districts.

Use the Areas of Emphasis and Future Ready Framework as a lens to analyze current trends, initiatives, needs and goals of your district. Link the work of this new plan identified by your planning team to the Gears and Areas of Emphasis of the KETS Master Plan on the following pages. There is no expectation to address all 37 Areas of Emphasis of the KETS Master Plan. Any strategy that involves Erate, please include in the Budget & Resources gear. If your district has lease agreements (i.e.; device, fiber, etc.), be prepared to reference the quantity during the final submission process.



Robust Infrastructure & Ecosystem

Future Ready Gear

KETS GUIDING PRINCIPLE – A robust infrastructure is one that delivers the device, network and support needs of staff and students to create personalized learning environments using digital tools and resources.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

 AA-1	Continue to provide nation’s first, fastest, highest quality, and most reliable internet access to 100% of Kentucky’s public schools
 AA-2	Continue to ensure equity and standardization for delivery of device, network, data and support creating best in class staff and student digital experiences AND provide a system of shared/brokered/managed services maintaining low infrastructure costs and providing support structures promoting the use of personalized learning environments
 AA-3	Continue to create a culture of digital connectedness through all- the-time, everywhere, always on digital opportunity and access with emphasis on dense Wi-Fi throughout schools <i>(also including home access, Wi-Fi buses, school and classroom Wi-Fi, etc.)</i>
 AA-4	Continue to encourage the use of instructional programs and administrative processes requiring cloud-based services
 AI-1	Improve ease of access for students and staff through continued progress toward 1:1 student to computer ratio utilizing increased amounts of mobile devices <i>(fewer traditional computer labs)</i>

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA1	Replace teacher desktop computers with laptops for portability	CIO	7/31/2020	CARES Act Funding	\$110,000	Google Classroom usage reports (100% utilization); increased teacher productivity (evaluated by building administration)
AA2	Continue to maintain networking equipment in all buildings to maintain a robust and reliable network	CIO, Vendor Partner	ongoing	Erate KETS	\$6,000	conversations with building personnel and help-desk tickets (provide 99.9% up-time) with satisfactory performance
AA3	purchase/deploy additional student devices	CIO, Vendor Partner	7/31/2020	CARES Act Funding General	\$180,000	improved test scores; increased use of online instruction
AA4	Continue to maintain A3 Microsoft License Agreement	CIO Vendor Partner	12/2021	KETS	\$15,500	
AI1	Upgrade core network equipment	CIO, Vendor Partner	7/31/2020	Erate KETS	\$67,385 \$16,847	Improved network performance and manageability; ability to maintain up-to-date code on key networking equipment



Data Security, Safety & Privacy

Future Ready Gear

KETS GUIDING PRINCIPLE – Security, safety and privacy of student data is a cornerstone of digital learning. Policies and procedures are enacted at the state, district and school levels that work in conjunction for this purpose. Student data are then utilized by data fluent educators for improved decision-making leading to increased learning for students.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

-  **AA-1** Continue to support districts in securely accessing and managing key student and administrative data sets through improved user experiences, refined data collection processes, continuously updated policies and practices regarding student data security, and timely access to data sets that improve the depth and efficiency of student learning (*Infinite Campus, Early Warning, MUNIS, eTranscripts, School Report Card*)
-  **AA-2** Continue to identify key aspects of data security regularly to build upon the current systems, procedures and policies to remain a leader in mitigating emerging threats (*acceptable use policies, firewall updates, data privacy studies, digital citizenship, content filtering*)
-  **AA-3** Continue to utilize adoption metrics or trending data for planning purposes that allow EdTech leaders to identify what’s working and what’s not working based upon data quality and evaluate current systems and solutions to determine effectiveness and future direction (*annual auditors, TELL survey, Technology Activity Report, Digital Readiness, Data Quality Study, Data Quality Campaign, BrightBytes, SpeakUp*)
-  **AA-4** Continue to migrate key administrative and student data sets to secure cloud-based services that allow anywhere, anytime secure access for the improvement of student learning (*Infinite Campus, Early Warning, School Report Card, MUNIS*)

 AA-5	Continue supporting teacher efforts in taking ownership of digital citizenship skills and education their student in the same skills to foster a secure digital learning environment
 AI-1	Educate and support districts in the importance of personnel with duties related to student/staff data quality, security and privacy as well as bringing data privacy to the “radar screen” of teachers/staff <i>(The People Side of EdTech)</i>
 AI-2	Kentucky K-12 Data systems are first-class but we need to do much better with district using the data available to them as well as providing visual data analytic tools allowing the data to be better understood and more interesting to the average person who does not have a technology and data background

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA1	Continue to educate staff on safe uses of technology and protection of personal data	CIO DPP Finance Officer Building Principals	ongoing	NA	NA	reduction of compromised accounts (complete elimination is the ultimate goal)
AA2	Continue supporting teacher efforts in taking ownership of digital citizenship skills and education their student in the same skills to foster a secure digital learning environment	CIO Building Principals PD Coordinator	ongoing	NA	NA	Digital Citizenship completion (100% completion for faculty/staff and students is the target goal)
AA3	Continue to utilize the secure Clever platform to streamline and access necessary apps/programs for both students and staff	CIO	ongoing	NA	NA	User experience, feedback, usage reports
AA4	Continue to provide a reliable network for district	CIO Safety	ongoing	NA	NA	secure buildings with keycard access, reliable security cameras

	security cameras and access controls	Coordinator				with ample coverage
AI1	Implement Strong Password Policy for faculty/staff	CIO Building Principals	9/15/2020	NA	NA	AD policy enforcement



Budget & Resources

Future Ready Gear

KETS GUIDING PRINCIPLE – The Master Plan, as well as district and school technology plans, are aligned to the vision of 21st century skills

for students and staff. Revenue streams are aligned to account for the recurring and nonrecurring total cost of ownership to support the 21st century learning environment in a manner that reflects good stewardship of tax dollars to include devices, infrastructure, support, data and human services.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

-  **AA-1** Continue to maximize local and state education technology expenditures through a system of shared/brokered/managed services
-  **AA-2** Continue use of long-term planning strategies that allow for continuity of initiatives and systems (*ex. Accounting for cost of ownership over the lifespan of equipment so monies are allocated for repairs/upgrades*)
-  **AA-3** Continue to leverage all available state and federal funding opportunities to address required basic cost of living increases, previous budget cuts of basic services, projected growth by districts (*e.g. Internet consumption*) while maximizing education technology programs and initiatives (*Technology Need, E-rate*)
-  **AA-4** Continue to migrate key administrative and student data sets to secure cloud-based services that allow anywhere, anytime secure access for the improvement of student learning (*Infinite Campus, Early Warning, School Report Card, MUNIS*)
-  **AA-5** Continue supporting teacher efforts in taking ownership of digital citizenship skills and education their student in the same skills to foster a secure digital learning environment
-  **AI-1** Make districts aware of position/roles requiring technology-related duties in support of technology and instruction (*The People side of K-12 EdTech*)
-  **AI-2** Make districts aware of how to reduce expenditures on printing/print services (*both in consolidated contract pricing as well as shifting from paper to digital experiences*)
-  **AI-3** Evaluate the need and explore new contracts that drive costs down for statewide summative online assessment, learning management systems, printing services and interim based assessments
-  **AI-4** See an increased percentage of districts examining which education technology investments are or are not being maximized

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)

AA1	Continue eRate planning cycle and Category 2 5-year strategic planning to include infrastructure upgrades in all buildings	CIO	July 31, 2021	E-Rate KETS	\$80,000 \$20,000	Ease of connectivity, speed of connectivity, robustness and manageability of network
AA2	Continue to utilize online help-desk work order system	CIO Building Principals	ongoing	KETS	\$2,000	Help desk reports; comments from faculty/staff
AI1	Communicate or share device inventory and usage for each building	CIO Building Principal	ongoing	NA	NA	Schools will determine the effectiveness of device usage in their respective buildings
AI2	Reduce printing costs by moving to centrally managed print services	CIO Building Principals Finance Officer	ongoing	NA	NA	Reduction in printing cost; monthly reports sent to building administrators



Partnerships

Future Ready Gear

KETS GUIDING PRINCIPLE – Connecting students and educators to the local and global community is a key factor to student success. The Master Plan will continue to provide opportunities for trusted relationships to build those connections as well as increase communication and transparency with shareholders, including families, districts, vendors, regional education collaboratives, postsecondary institutions and business/industry, in support of student learning and preparation beyond K-12.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

 AA-1	Continue to build trusted relationships with shareholders (families, districts, partners) that will reduce risk as well as increase transparency and communication (<i>districts, vendors, higher-education, regional cooperatives</i>)
 AA-2	Continue to utilize avenues of communication with shareholders allowing pertinent information and dialog to further student learning efforts (<i>Webcasts, BrightBytes, Technology Activity Report, KETS Service Desk, Office of Education Accountability studies, independent studies, etc.</i>)
 AA-3	Continue to utilize tools engaging postsecondary institutions, community members, districts and families in student learning and life after K-12 (<i>eTranscripts, School Report Card and Dashboard tool, Infinite Campus parent and student portal, KDE Open House, Digital Readiness Survey</i>)
 AI-1	Partner with postsecondary pre-service teacher and principal programs to provide support in candidate preparation
 AI-2	Encourage postsecondary institutions to host STLP events and /or more fully maximize the opportunity to showcase the university and its programs while students are on campus

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA1	Continue to participate in scheduled training events covering products critical to the efficient use of resources	CIO Technology Dept Media Specialists	ongoing	NA	NA	Daily logs; Meeting notes shared via Google and Teams
AA2	Continue to support the use of multiple methods of communication including social media, Remind, district website and School Messenger	Superintendent CIO Marketing Director Principals	ongoing	General KETS	\$9,450 \$6,750	System-wide reports, direct feedback from stakeholder groups, district surveys
AA3	Continue to participate in regional technology meetings including the CIO meetings, DLC, Tech meetings and KySTE	CIO Technology Dept	ongoing	General KETS	\$2,000	Technology staff will build collaborative relationships with personnel in other districts
AI1	Seek partnerships to support or expand local STLp efforts	CIO STLp Leaders	ongoing	NA	NA	Enhanced level of support from community, projects take on more specific local purpose, student learn the importance of working with business/industry to enhance community involvement



Digital Curriculum, Instruction & Assessment

Future Ready Gear

KETS GUIDING PRINCIPLE – A digital learning experience is fostered by a teacher or coach with the use of rich digital instructional materials that are vetted to the rigor of Kentucky Academic Standards. A robust digital environment provides students with the opportunity to assess their own learning/progress.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 



Continue to provide access to instruction digital content which further aligns to the Kentucky Digital Learning Guidelines

 AA-2	Continue providing opportunities for students to demonstrate learning connected to and through technology (<i>empowering students through technology with STLP, IT Academy, etc.</i>)
 AA-3	Continue to finalize and partner with Career and Technical Education (CTE) to promote Kentucky approved K-12 Computer Science Standards and Technology/Digital Literacy Content Standards (<i>based on International Society for Technology in Education standards</i>) for ALL students
 AA-4	Continue providing access to online assessment tools that allow teachers and administrators to assess student learning, provide timely feedback to students and make curriculum decisions (<i>online formative assessment tools, interim based assessments, and summative assessments</i>)
 AA-5	Continue to provide districts/classrooms access to digital instructional materials through an equitable of robust digital experience
 AI-1	Identify digital content and tools (curriculum, instruction and assessment) designed to have the highest impact and value (e.g. is the technology making or not making an instructional and learning difference?), including frequency of use by teachers and students
 AI-2	Create a closer connection with Career and Technical Education to expand information technology and computer science career pathway offerings specifically related to computer programming/coding and increase exams available through IT Academy
 AI-3	Play a vital role in implementation of summative online assessment and school report card and dashboard tool of the new assessment and accountability system

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA1	Web-based software will continue to be used (free and paid subscriptions) to support teachers in all facets of the educational process including (MAP Testing, Keyboarding Without Tears, Learning A-Z, Mystery Science, Gradecam, Generation Genius, TCI,	Principals Instructional Supervisor	August - May	SBDM Title I	\$5,000 \$8,000	Increase in the number of students scoring proficient or higher on the KPREP assessment

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	Flocabulary, Nearpod, Case 21)					
AA2	Continue MAP testing as universal screener	Assessment Coordinator Principals	August - March	General	\$22,000	Students continue to meet benchmarks on assessments
AA3	Continue to foster the relationship with Career and Technical Education to expand information technology and computer science career pathway offerings specifically related to computer programming/coding	CIO Instructional Supervisor Career Academy Coordinator	ongoing	NA	NA	increased offering in computer science, Increased enrollment in computer science courses, increase in industry certifications received by students
AI1	Continue to build STLP district-wide to provide creative learning opportunities for students and provide real-world project experience	STLP Leaders	Ongoing	NA	NA	STLP membership at each school



Personalized Professional Learning

Future Ready Gear

KETS GUIDING PRINCIPLE – Digital learning expands the access to quality strategies and experiences for educators beyond the traditional methods of professional development. A culture of digital collaboration, workflow and relationships allows educators to build skill sets and instructional best practices with colleagues globally. This approach of increased access and flexibility for professional learning ultimately leads to greater success for students.

Areas of Emphasis: Areas of Acceleration (AA)  / Areas of Improvement (AI) 

 **AA-1** Continue building a culture of digital collaboration and connected digital relationships that allow administrators to support and encourage the use of digital tools by staff for professional learning

 **AI-1** Provide district with guidance and support to determine crucial learning needs of teachers resulting in more professional learning opportunities related to digital learning tools

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA1	Online Professional Learning Library of current articles created with worksheets for teachers to obtain PD credit	Instructional Supervisor Principals	updated annually	NA	0	Teachers will attain PD credit without having to travel and incur registration expenses elsewhere SBDM Council members will be

	SBDM Training Online (Youtube)					able to attain training on their own pace via online videos
AA2	Continue to share online instructional resources and provide a mechanism for organizing them (Google Resources)	Principals Media Specialists CIO	ongoing	NA	NA	Google usage reports, visible implementation of materials shared
AA3	Continued use of Microsoft Teams and Google Meet for virtual trainings	All Faculty/Applicable Staff	ongoing	NA	NA	Product usage reports and visible implementation of technologies covered
AI1	Create and share instructional videos to assist teachers with enhanced implementation of classroom instructional technologies (Google Classroom, Google Meet, Google Chat, etc).	Media Specialists Teachers	ongoing	NA	NA	Google usage reports, YouTube statistics, increased number of instructional videos created by district personnel



Use of Space & Time

Future Ready Gear

KETS GUIDING PRINCIPLE – The personalized learning environment for students requires reimagining the use of school space and time. Virtual instruction, cloud-based learning tools, digital instructional material, digital collaboration, digital workflows and digital relationships, etc., assist in providing the vehicle for anywhere, anytime learning.

Areas of Emphasis: Areas of Acceleration (AA)  / Areas of Improvement (AI) 

- 
AA-1 Continue to provide guidance, support and resources for districts in the development and application of high quality online/virtual coursework as well as implementation of learning management systems
- 
AI-1 Educate and support districts in the implementation and facilitation of digital learning tools and portable technologies that foster anywhere, anytime access for staff and students

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA1	Continue to provide guidance and resources to assist with online collaboration and instruction	CIO Media Specialists	ongoing	NA	NA	Google, Teams and YouTube usage statistics
AI1	Provide instruction on use of new laptops for online instruction	CIO Media Specialists Identified teachers	ongoing	NA	NA	Content created by teachers, Google usage statistics, help-desk tickets