

DISTRICT TECHNOLOGY PLAN




DISTRICT NAME Christian County

LOCATION Hopkinsville, KY

PLAN YEAR(S) 2019-2021



Christian County Public Schools

Our Mission: Creating an educational culture of continuous growth through shared partnerships and responsibilities.   
200 Glass Avenue Hopkinsville, KY • (270) 887-7000 • www.christian.kyschools.us

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Planning Team

District Staff [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, DAC, etc.]	
+Tracy Pelletier, Retiring DTC	Jessica Darnell, Finance Officer
Jason Wilson, DTC	Brad Hawkins, COO
Mary Ann Gemmill, Superintendent	Amy Wilcox, CIO
Rebecca Martin, Technology Support Manager	Susie Hartline, Director of Strategic Planning
Building Staff [Recommended to included principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
Penny Knight, Principal	Kim Stevenson, District Discipline Administrator
Tonya Oakley, Principal	Leslie Lancaster, Principal
Wendy Duvall, Principal	
Additional District Contributors [Recommended to include board members, SBDM members, program directors, etc.]	
Students [Recommended to include middle and/or high school students]	
Other [parents/community members, business and nonprofit leaders, etc.]	

Previous Plan Evaluation

In this section include a discussion of the “expiring” (*previous year’s*) plan using the prompts below. Attempt to limit your narrative to the space provided.

What goals were met?

- All of the goals outlined in the 2018-2019 EdTech plan were achieved.

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

- One area of improvement that we will focus on from the previous plan will be to further engage our Technology Integration Professional’s (TIP’s) in becoming more of a technology integration resource within their perspective buildings.
- Expand TIP training sessions beyond 10 minute time allotments during faculty meetings.

Areas of improvement?

- We will focus on technology integration into the classroom and move beyond assessments and replacement into lesson and instructional enhancement.

Areas/goals that are no longer relevant?

Needs that emerged after evaluation of the previous plan?

- There is a need for an additional Digital Learning Coach (DLC) district wide.
- There is a need to create intentional planning time for TIP’s and DLC’s in order to better integrate technology district wide within the instructional day.

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?

Collaborative planning with our principals, directors, and technology staff.

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.

Future plans

- We will continue to leverage KETS and E-Rate funding for several infrastructure projects.
- Technology Exchange (Summer 2019)
- Continued training with Google Classroom LMS– District Wide expansion (2019-20)
- Continued support to Personnel and Payroll departments with new FrontLine Central
- Continued support to all schools with their student/parent data and Infinite Campus Online Registrations(OLR's)
- Continued support of parent and student IC portals
- Gateway Breathitt Campus – cabling, installation of Access Points, switches, phones, cameras, workstations, projectors, and redcat sound system.
- Workstation replacement – Alternative School, Pembroke, Gateway, and CCLC (June) Indian Hills, Sinking Fork and HMS (July, 17th 2019)
- Complete camera assessment at each district site
- Acquire funding for camera installation for blind spots that are not currently covered
- Acquire funding for camera installation at the Alternative School and Stadium of Champions
- Add the GoGuardian Filtering system to our Chromebook environments
- Add an additional Digital Learning Coach (District Wide)
- Complete newly developed IC Training Manual
- Create in-district IC Support Site
- Develop Living Calendar for future IC Trainings

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)?

- Yes, we currently use the Studer Education Group to collect responses from students.

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.

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 (*also including home access, Wi-Fi buses, school and classroom Wi-Fi, etc.*)



AA-4: Continue to encourage the use of instructional programs and administrative processes requiring cloud-based services



AI-1: Improve ease of access for student and staff through continued progress toward 1:1 student to computer ratio utilizing increased amounts of mobile devices (*fewer traditional computer labs*)

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)
AA-1	Continue to provide the latest innovations and technology features to keep availability of a reliable, high speed network infrastructure.	DTC, Tech Staff, Vendor partner	On Going	KETS, eRate, General Funds as needed	To be determined	Student and staff will have access to a reliable network for improved teaching and learning. Assessed in annual survey.
AA-1	Replacement and installation of Cat6 cabling.	DTC, District Support Team; Vendor	completed by June 30, 2020	Erate, General Fund	\$4300	Increased reliability and assess for students and staff at Indian Hills.
AA-1	Complete fiber run between two existing structures.	DTC, District Support Team; Vendor	completed by June 30, 2020	Erate, General Fund	\$3150	Increased connection speed and reliability at CCHS.
AA-2	Provide adequate technology staff to support infrastructure and administrative needs	DTC, Finance Officer	On Going	General Funds KETS	To be determined	Increased opportunity for support structures promoting the use of personalized learning environments
AA-2	Refresh and replace battery backup's throughout the district.	DTC, District Support Team; Vendor	completed by June 30, 2020	Erate, General Fund	\$11,600	No loss of data or power during power outages.
AA-3	Provide and maintain high density wireless coverage for all district locations	DTC, Tech Staff, Vendor Partner	On-going	KETS General Fund Erate	To be determined	Increased opportunity for access to high speed and reliable network for improved teaching and learning.
AA-3	Upgrade access points	DTC, District	completed by	Erate, General	\$5600	Device is installed and working



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		Support Team; Vendor Partner	June 30, 2020	Fund		correctly at the Alternative School.
AI-1	Continue to refresh rate on end user devices by budgeting needed funds	DTC; District Support Team; Vendor; CFO	ongoing/yearly	General Fund	\$506,000	We will continue to replace outdated devices throughout the district. Replacing traditional computer labs with mobile devices.

**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 (*The People Side of EdTech*)



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

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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)
AA-2	Implemented First Net on all District cell phones - given first call priority during an emergency	District staff	ongoing	0	0	Emergency procedures
AA-5	Implement and begin professional learning of GoGuardian filtering system.	DTC, DST, DLC, School Administrators, Teachers	ongoing	general fund	\$12,600	Documentation of professional learning. GoGuardian data and reports.
AA-5	Digital Driver's License <ul style="list-style-type: none"> faculty/staff/students are required to complete DDL before granted access to our wireless on personal devices all 5th graders are to complete the DDL by April 2020 	DTC, DLC, School/District Administrators	annually/ongoing	provided by state	\$0	Reports of 100% of 5th grade students completion of DDL.
AI-1	Annual confidentiality training to include data security and privacy as well as permissioning issues and communication (SSN, IEP, FRAM, Google, etc.) District IC team user groups and rights.	Director of Personnel School Administrators District Support Team	required upon employment			Professional learning records of training completion. Updated policies/procedures regarding data security/privacy
AA-5	Continue to offer the Technology Exchange for professional development to all staff.	DTC; DST; DLC; TIP's	yearly	General Fund	\$3000	EventBrite sign in data and professional development hours logged in Frontline.

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AA-1	Continue to provide Technology infrastructure support to the departments that use and administer these systems.	DTC,DPP, Finance, HR, Instruction	On going, Daily			Department feedback
AA-2	Continue to update and adjust the acceptable use policy and train students and staff of acceptable use of technology	DTC	Ongoing			signed AUP by staff and students
AA-4	Continue to support All Schools with their student/parent data and OLR's	DTC, Dir of System Support, Student Data Specialist	Ongoing			IC report
AA-4	Continue to create and support Parent/Student IC Portal	DTC, Dir of System Support, Student Data Specialist	Ongoing			IC report
AA-1	Continue to provide clean data and current data in IC fields related to households, health, counselors, medications, flags, emergency contacts, SSID numbers, email, custom tabs, and addresses	DTC, Dir of System Support, Student Data Specialist	Ongoing			IC reports



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*)



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

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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)
AI-1	Post/ hire an additional Digital Learning Coach.	DTC; CFO; Director of Personnel	July 2019	General Fund	\$60,000	
AA-3	Take full advantage of E-rate & KETS funding to maximize technology across the district.	DTC	ongoing	KETS Matching Funds		
AA-2	Continue to budget and utilize maintenance contracts through vendors (Extreme Networks, Continuant, iBoss, etc...)	DTC	ongoing	General Fund	\$100,000	



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 (*districts, vendors, higher-education, regional cooperatives*)



AA-2: Continue to utilize avenues of communication with shareholders allowing pertinent information and dialog to further student learning efforts (*Webcasts, BrightBytes, Technology Activity Report, KETS Service Desk, Office of Education Accountability studies, independent studies, etc.*)



AA-3: Continue to utilize tools engaging postsecondary institutions, community members, districts and families in student learning and life after K-12 (*eTranscripts, School Report Card and Dashboard tool, Infinite Campus parent and student portal, KDE Open House, Digital Readiness Survey*)



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



AI-3: Build relationships with charter schools to determine policies and procedures related to architecture/design, systems security and privacy, services and reporting requirements

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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)
AA-1	Studer Group Strategies	District Wide	Fall 2019	General		Parent/Student Survey Results
AI-2	District STLP Showcase	DTC, STLP District Co., STLP Coordinators	Spring 2020	General	Annually	Media recognition, advancement to State competition.
AA-2	Communicate results from Struder Survey	District Wide	Spring 2020	General		
AA-1	Create planning team that incorporates local stakeholders (student, parent, business, etc...)	DTC, District Administration, Student rep, Parent, rep	Spring 2020	General		Team works together to complete the district technology plan for school year 2020-2021.



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) 



AA-1: 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 (*empowering students through technology with STLP, IT Academy, etc.*)



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 (*based on International Society for Technology in Education standards*) 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 (*online formative assessment tools, interim based assessments, and summative assessments*)



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	How will you know this is successful? (including metrics)
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					Funding Amount	
AA-1	Continue to provide Microsoft productivity tools to improve classroom and school collaboration as well as additional management and security tools to benefit and protect users via access to yearly renewal of A3 Office 365 licensing with ATP.	DTC	Annually	District Technology Budget	\$35,000	Yearly renewal and a 50% decrease in malware/phishing attacks on users.
AA-1	Teachers will use Google Classroom and educational Google Apps to guide enhance effective instruction.	DLC, TIPs, Teachers	Ongoing	NA	None	
AA-4	Continue to provide support for DODA Grant facilitators for HMH reading and math online programs.	DTC	Annually	Grant Funding	None	HMH Usage and Data Reports
AA-1	Moby Max, Learning A-Z, TCI or similar curriculum program will be implemented at elementary schools to promote both 'catch up' growth and accelerated growth in students.	DLC, CIO, Classroom Teachers	Annually	General Fund		Program Reports of student growth/progress
AA-1	Odysseyware online course work for Middle/High students	M/H Teachers, Students	Annually	DoDEA Grant		Students are able to successfully complete online coursework.



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)
AA-1	Technology Integration Professionals (TIP's) present information monthly through faculty meetings to staff members	TIP's; School Administration	ongoing	General Fund	\$12,000	Sign in sheets during faculty meetings; increased use of Google products
AI-1	Technology Exchange is held yearly where teachers are able to personalize the learning that they receive. The tech exchange accounts for a minimum of 2 hours of professional learning	DTC; DLC; Vendors; DST	July 2019	General Fund	\$3000	PD Certificates

AA-1	Teacher Intentionally Learning Together (TILT) are professional learning sessions that are conducted by teachers/staff. TIP's conduct sessions that are specifically geared towards digital learning, digital citizenship, and technology integration	DTC; TIP's; CIO	yearly ongoing	General Fund		completion of 6 hours of professional learning; sign in sheets from TILT sessions
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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)
AI-1	Technology Integration Professions (TIP's)present information monthly through faculty meetings to staff members	TIP's; School Administration	ongoing			Sign in sheets during faculty meetings; increased use of Google products
AI-1	Continue and advance resource from training	teachers/ DLC/STA	Ongoing			-The advancement of resources being used by teachers. -Technology Exchange Training Options -TIP/STA being more knowledgeable and able to help