

Kentucky Education Technology System

DISTRICT TECHNOLOGY PLAN

DISTRICT NAME Christian County Public Schools

LOCATION Hopkinsville, KY

PLAN YEAR(S) 2023-2024



CHRISTIAN COUNTY
— PUBLIC SCHOOLS —
A Community Committed to Phenomenal Schools

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Planning Team

District Staff [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, DAC, etc.]	
Jason Wilson CIO/DTC	Chris Bentzel - Superintendent
Jessica Darnell - Finance Director	Jessica Addison - Assistant Superintendent
Josh Hunt - Assistant Superintendent	Rebecca Martin - Technology Support Manager
Building Staff [Recommended to include principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
Kadi Ralston - Secondary Instructional Supervisor	Michael Stinnett - Millbrooke AP
Johnathon King - HHS AP	Alissa Riley - Gateway Teacher
Penny Knight - Gateway Principal	
Additional District Contributors [Recommended to include board members, SBDM members, program directors, etc.]	
Kim Stevenson - Director of Alternative Programs	Sandra Hancock - District Transition Coordinator
Tracy Leath - Director of Federal Programs	Michelle Walden - Primary Instructional Supervisor
Students [Recommended to include middle and/or high school students]	
Sophia Wilson - CCHS	Landon Hunt - CCHS
Eliza Renshaw - HHS	
Other [parents/community members, business and nonprofit leaders, etc.]	
Chris Tyson-Renshaw - DLC/Parent	Shea Walker - DLC/Parent
Chris Nahlik - DLC	

Previous Year's Strategies Evaluation

In this section include a discussion of the previous year's strategies using the prompts below. Attempt to limit your narrative to the space provided.

What strategies from last year went well?

- We have replaced 323 projectors with IFP's
- found funding for other ½ DLC
- replaced 120 battery backups
- installed 220+ new security cameras

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

- more support of blended learning tools
- additional PD around using technology to enhance learning and not just replace paper and pencil

Which strategies are dropping off the plan because you've met them or they aren't relevant now ?

- 1-to-1, we have more than enough devices for every student in the district to have a device

Needs that emerged after evaluation of the previous year's strategies?

- student help desk in order to help with break/fix issues
- weapons detection systems
- new phone system
- continue to replace old ip cameras with higher resolution cameras
- PD around blended learning
- looking into AI products such as ChatGPT as a tool
- planning for 2024 school consolidations and school transitions

Upcoming Year's Strategies Preview

If this is the first year of a multi-year plan, this section acts more like an executive summary of the plan as a whole. If this is the second or third year of a multi-year plan then aim your discussion to any new strategies or adjustments you are planning for this year.

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

How did you and the planning team decide on the strategies and/or adjustments for this plan?

A survey was generated and distributed to gather feedback. Based on the responses the areas of emphasis were decided and tweaked. Also, network knowledge and discussion among the technology staff occurred to determine needs. We also used district site visits and collaborative planning with our principals and directors.

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.

- We will continue to leverage KETS and E-Rate funding for several infrastructure projects.
- CCPS will host TeachMeet West KY on July 20, 2022
- 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
- Workstation replacement – HHS, HMS, SF, IH, PE, BG, Gateway, Breathitt
- Replacing teacher workstations with laptops and docking stations at HHS, HMS, SF, IH, PE, BG, Gateway, Breathitt.
- Install new phone system and replace all phones
- continue to replace aging projectors with IFP's
- wireless saturation as CCMS and MLK (new HMS) in gym and cafeterias for arena style testing
- continue chromebook replacement cycle approx 1400 this year
- continue replacing old monitors
- evaluate and begin replacing network switches

The past couple of years have been fast and furious for CCPS. Beginning with the 24-25 school year there will be some major shifts in schools and grade levels in Christian County. The technology staff has already begun planning for these changes in order to make sure that we can accommodate for the number of students and devices needed to pull off these changes. Also, CCPS has been tapped to host TeachMeet West KY in July 2023. This is exciting for us as we have previously held our own TechExchange which has been very popular among our staff. CCPS has been able to move away from the planning and into the execution of 1-to-1 as we now have plenty of devices for our students. A continued focus will be on blended learning and technology integration into the classroom that moves beyond paper and pencil replacement and into true enhancement of instruction. CCPS will also be

replacing our aging phone system with a new cloud based system during the summer of 2023. CCPS will utilize our DLC’s expertise and dive into the world of AI using tools like ChatGPT and how it can enhance and aid instruction.

Student Voice

Personalized 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. Our superintendent also has a student advisory council that he uses to gather student insight. The student advisory council has about 30 students from each high school. Also, a few high school students participated in a technology focused survey.

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 or informed strategy adjustments during an ongoing 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 36 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)
AA2	<i>Upgrade wireless network with a brokered network as a service partner including collapsing to a single SSID.</i>	<i>CIO, Vendor Partner</i>	<i>completed by Aug 1, 2022</i>	<i>Erate KETS General Fund Federal Program Grant School-based Other</i>	<i>\$5000</i>	<i>Usage increases by 50% and devices connected increases by 20% per day.</i>
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-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-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.
AI-1	Continue to refresh rate on teacher laptops by budgeting needed funds	DTC; District Support Team; Vendor; CFO	ongoing/yearly	General Fund	\$234,000	We will continue to replace outdated devices throughout the district. Replacing traditional computer labs with mobile devices.
AI-1	Continue to plan for sustainability of 1-to-1 initiative for K-12	DTC, Superintendent, finance director	on going	ESSR, GEAR, General Fund	\$350,000	We will plan for and replace 1400 chromebooks this year.










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 (<i>Infinite Campus, Early Warning, MUNIS, eTranscripts, School Report Card</i>)
 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 (<i>acceptable use policies, firewall updates, data privacy studies, digital citizenship, content filtering</i>)
 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 (<i>annual auditors, TELL survey, Technology Activity Report, Digital Readiness, Data Quality Study, Data Quality Campaign, BrightBytes, SpeakUp</i>)
 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 (<i>Infinite Campus, Early Warning, School Report Card, MUNIS</i>)
 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)
AA-2	Enabling MFA for all certified staff (admin staff and high rights users have already had MFA turned on)	DTC, Tech staff, district admin	August 2023	n/a	n/a	all certified and administrative accounts have MFA enabled
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	Host TeachMeet West KY for professional development to all staff.	DTC; DST; DLC; TIP's	yearly			Digital Sign in and professional development hours logged in Frontline.
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 (<i>ex. Accounting for cost of ownership over the lifespan of equipment so monies are allocated for repairs/upgrades</i>)
 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 (<i>e.g. Internet consumption</i>) while maximizing education technology programs and initiatives (<i>Technology Need, E-rate</i>)
 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 (<i>Infinite Campus, Early Warning, School Report Card, MUNIS</i>)
 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 (<i>The People side of K-12 EdTech</i>)
 AI-2	Make districts aware of how to reduce expenditures on printing/print services (<i>both in consolidated contract pricing as well as shifting from paper to digital experiences</i>)
 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)
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	DTC	ongoing	General Fund	\$100,000	
AA-5	Offer PD with focus on Blended Learning	Tech team and Instructional team	July 2023	ESSR, GEAR, General	< \$10,000	teacher successful implementation of blended learning tools and applications
AA-5	Offer PD around AI and products like ChatGPT and the advantages for school use	DLC's	July 2023	ESSR, General	<\$5000	begin to see programs like ChatGPT being used for and in instruction








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)
AI-2	District STLP Showcase to come back for 2023/2024	DTC, STLP District Co., STLP Coordinators	Spring 2024	General	Annually	Media recognition, advancement to State competition.
AI-1	Working with Murray State to Provide interns network access	DTC, MSU coordinator	on-going	none		interns are able to access necessary network pieces











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 (<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)
AA-1	Continue support of Canvas and the LMS for 7-12	Teachers, students, DTC, Director of Instruction	ongoing	ESSR, general fund		
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	\$52,000	Yearly renewal and a 50% decrease in malware/phishing attacks on users.
AA-1	Support the CCPS Virtual Learning Academy and their implementation of blended learning model	DTC, DLC, Dir of Curriculum/ Instruction	ongoing	Curriculum/ Instruction and General ESSR		
AA-1	Continue to purchase Google enhanced licensing to provide tools for teachers as well as security tools for district	DTC	ongoing	General Fund	\$33,000	



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)
AI-1	TeachMeet will be held in July 2023 where teachers are able to personalize the learning that they receive. TeachMeet accounts for a minimum of 2 hours of professional learning	DTC; DLC; Vendors; DST	June 1, 2020 and annually	General Fund	\$10,000	PD Certificates
AA-1	Working with Viewsonic on implementation of IFPs	DTC, DLC, building principals	begin July 2022	general	\$3000	teachers utilizing IFPs in classroom and they become natural parts of instruction
AI-1	Utilize AI features like ChatGPT to provide resources to teachers	DTC, DLC, Instructional	ongoing	general	<\$5000	





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)
AA-1	build content into canvas using Florida Virtual Learning	DTC, DLC, VLA admin	on-going	Title IV		students are able to complete online courses and recover needed credits