DISTRICT TECHNOLOGY PLAN

DISTRICT NAME Hopkins County

LOCATION Madisonville, KY

PLAN YEAR(S) 2023-2024



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Planning Team

District Staff [Recommended to include CIO/DTC, TIS/DLC, technicia	n, finance officer, superintendent, academic officer, DAC, etc.]
Amy Smith, Superintendent	Steven Vaught, Network Support Manager
Drew Taylor, CIO	Marty Cline, Assistant Superintendent
Eydie Tate, Director of Finance	Robert Carter, Director of Engagement, Equity and School Support
Melissa Taylor, Digital Learning Coach	Wendy Mitchell, Director of Elementary Education & Early Childhood
Alaina Lancaster, Director of Secondary Education	Damon Fleming, Assistant Superintendent
Building Staff [Recommended to included principals, LMS, STC, cour	nselors, teachers, teaching assistants, etc.]
Additional District Contributors [Recommended to include board	members, SBDM members, program directors, etc.]
Students [Recommended to include middle and/or high school stud	ents]
Other [parents/community members, business and nonprofit leade	rs, etc.]
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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? The network cabling projects went very well in all 4 schools.
Goals that were not met or didn't have the expected outcomes?
Which strategies are dropping off the plan because you've met them or they aren't relevant now? Gradecam was dropped because we are moving to Edulastic for a more flexible and robust solution.
Needs that emerged after evaluation of the previous year's strategies?

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 <u>Technology Planning section of KETS Master Plan</u> for more information]

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

The work was divided into areas in which each contributor was an owner. Each contributor completed their own section and submitted to the CIO to compile and finalize.

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 are hoping to utilize new technical tools to improve processes and help instruction. We are also looking into different options to move forward with our datacenter operations and network management, including cabling projects. We have a new WAN contract starting this year with Spectrum lit fiber, which will give us more flexibility and lower risk. We have multiple security initiatives to make students and staff feel more safe and secure, including cybersecurity, physical security, and emotional and mental safety. Our Digital Learning Coaches are working with schools to develop new and innovative ways to educate students on digital literacy. We also have multiple construction projects in progress that will continue for the next few years.

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)?

We are a Studer District, so we use Student Engagement Surveys based on Studer initiatives. Although the survey is more for the whole child and not necessarily directly focused on technology, there is an opportunity to give feedback on technology if desired.

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 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)







Continue to provide nation's first, fastest, highest quality, and most reliable internet access to 100% of Kentucky's public schools



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



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.)



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



Improve ease of access for students 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 Al	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-2	Configure Network Access Control Management to enforce network access policies for wired and wireless devices.	CIO, Technology Department	Ongoing/yearly	Technology Funds	\$10,000/yea r	Tech work orders decrease for network related issues.
AA-2	Integrate Azure, Intune, and O365 to improve device management, and user security and management	CIO, Vendor partner	Ongoing/yearly	Technology Funds KETS	\$35,000/yea r	Core Technology will be able to grow and continue to serve staff and students.
AA-2	Continue to follow refresh cycle on devices by budgeting needed funds	CIO, CFO	Ongoing/yearly	Technology Funds KETS	\$200,000/ye ar	We will continue to refresh devices on a 5-6 year cycle, equitable across all schools
AA-2	Continue the replacement/refresh of interactive displays	CIO, Technology Department	Ongoing/yearly	Technology Funds School Funds KETS	To Be determined	Feedback from teachers and instructional staff.
AA-3	Explore options and need to provide sufficient wired/wireless network access in all areas.	CIO, Technology Department	Ongoing/yearly	Technology fund KETS	To Be determined	Monitor number of devices checked out and monitor the usage analytics.
AA-4	To provide a safe and monitored environment for administrative processes. Both hosted and cloud solutions.	Technology Department, Facilities, Director of School Support	Ongoing/yearly	General fund Technology fund Safe Schools KETS	To Be determined	By installing access control, cameras, visitor check in systems. This ensures a successful, efficient, and safe environment for our staff and students.

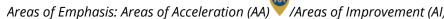
AI-1	Improve district policies and procedures, and continue to support schools with devices and management of all devices, including school-purchased.	CIO, Technology Department, Vendors	Ongoing/yearly	Technology Funds School Funds	To Be determined	Feedback from school and district leadership. Use Google Tools to run usage reports.
AA-1	Replace and install network cabling infrastructure in schools with the biggest need.	CIO, Technology Department, Vendors	Ongoing/yearly, As needed	Technology Funds KETS	To Be determined	There will be increased network speeds and will prepare our network infrastructure for future upgrades/expansion.
AI-1	Explore options to provide devices to all students, or the students that need them and otherwise cannot perform classwork online.	CIO, Technology Department, Vendors, Instructional Staff	Ongoing/yearly, As needed	General Fund Technology Funds School Funds KETS Grants	To Be determined	All students, or students with need, will have access to a dedicated device for Instruction.



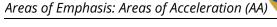
Data Security, Safety & Privacy

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.









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)



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)



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)



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)



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



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)



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 Al	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 improve access and security to data systems, including Infinite Campus, Windows, and O365.	HR Department Technology Department	Ongoing and continuous	General Fund	To Be determined	Data breach risk will decrease. Azure and O365 reports.
AA-2	Continue professional learning and implementation of a cloud-based web filtering solution.	Director of Technology Digital Learning Coaches All Teachers	Ongoing and continuous	General Fund	\$5,000/year	Web Filter data and reports
AA-3	Surveys for students, staff, and parent/guardians; results used for next steps in improving all areas.	Director of Technology School/District Administrators	2-3 times annually	General Fund	To Be determined	We can measure participation and feedback in the surveys.
AA-5	Continue to improve digital citizenship education and prioritize Computer Science Academic Standards at all grade levels.	Director of Technology Digital Learning Coaches District Instructional Leaders All Teachers	Ongoing and continuous	General Fund	To Be determined	Reports of student completion of digital citizenship lessons

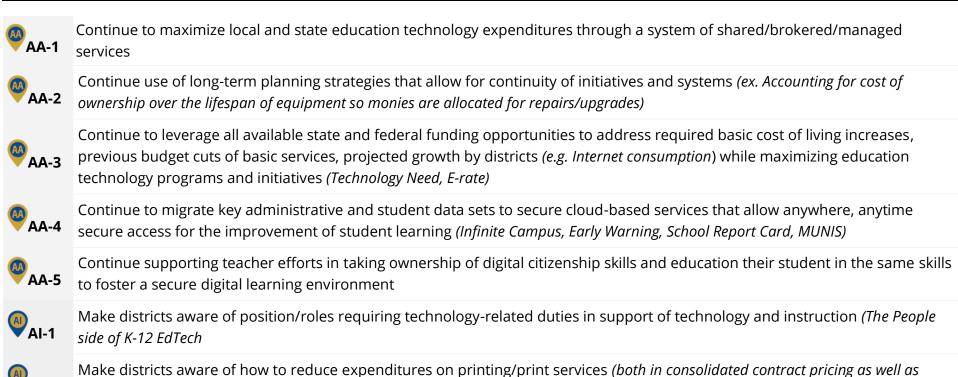


KETS GUIDING PRINCIPLE - The Master Plan, as well as district and school technology plans, are aligned to the vision of 21st century skills for students and staff. Revenue streams are aligned to account for the recurring and nonrecurring total cost of ownership to support the 21st century learning environment 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)

shifting from paper to digital experiences)







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



See an increased percentage of districts examining which education technology investments are or are not being maximized

KETS AA or Al	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.	CIO, Technology Department	Ongoing and continuous	USAC/E-rate KETS Technology Funds	To Be determined	Periodic refresh of network equipment and connectivity
AA-1	Evaluate moving servers to Cloud-based Infrastructure (laaS).	CIO, Technology Department	Ongoing and continuous	KETS Technology Funds	To Be determined	Hope to achieve cost reduction with similar or improved performance
Al-1	Evaluate needs for additional technology positions and distribution of job duties	CIO, District Leadership	Ongoing and continuous	General Fund Technology fund KETS	To Be determined	Employee retention and process efficiency.
AI-4	Analyze expenditures on tech services and cross reference with usage report from Gopher Tools.	CIO, Technology Department	Ongoing and continuous	KETS Technology Funds	To Be determined	Use Gopher Tools to gather usage reports on devices.
AA-1	Evaluate the need for managed services.	CIO, Technology Department	Ongoing and continuous	KETS Technology Funds	To Be determined	Hope to achieve cost reduction with similar or improved performance



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.



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)

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.)

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)

Partner with postsecondary pre-service teacher and principal programs to provide support in candidate preparation

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 Al	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1	Distribute information via various media about events/projects/initiatives.	Technology Department District/School Leadership	Ongoing and continuous	General Fund	To Be determined	Parent/Stakeholder Feedback
AA-2	Evaluate use of webcasts to get information out to staff, students, parents, and/or community.	Technology Department District/School Leadership	Evaluated by June 1, 2023	General Fund Technology Fund	To Be determined	Evaluate cost and logistics, along with stakeholder feedback.
AA-3	Continue to use Infinite Campus Parent Portals to keep parents up to date on student learning and success	District/School Leadership Teachers	Ongoing and continuous	General Fund	To Be determined	Parent Feedback and Infinite Campus reporting.
AA-3	Continue to use ParentSquare to keep parents up to date on district/school information	District/School Leadership	Ongoing and continuous	General Fund	To Be determined	Parent Feedback, Infinite Campus reporting, and Remind reporting.
AA-3	Continue to use Zoom and Microsoft Teams to conduct virtual meetings.	District/School Leadership Teachers	Ongoing and continuous	General Fund	To Be determined	Stakeholder Feedback and Zoom reporting.



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)

students





AA-1	Continue to provide access to instruction digital content which further aligns to the Kentucky Digital Learning Guidelines
OAA-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
WAA-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
Al-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

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



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 Al	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-2	Continue to encourage and assist teachers and students with STLP planning and competitions.	CIO Digital Learning Coaches Teachers Administration	Ongoing and continuous	Technology Funds School Funds	To Be determined	Number of STLP participants.
AA-3	Provide tools and content for teachers and administrators to teach students about digital literacy and help them achieve KY Academic Standards for Technology and Computer Science.	CIO Digital Learning Coaches Teachers Administration	Ongoing and continuous	Technology Funds School Funds	To Be determined	
AA-1	Study Island or other selected LMS will be available to all schools for reinforcement, remediation, or intervention, and NWEA pathway linkage as available for grades K-8.	Instructional Directors All Teachers	SY 23-24	Title V	\$51,753	MAP Growth Measures Usage Reports
AA-1	ExactPath will be available	Instructional	SY 23-24	Title V	\$23,497	MAP Growth Measures

	and implemented for reading and math Tier 2/3 interventions in grades 3 – 8	Directors All Teachers Curriculum Coordinators				Usage Reports Students no longer needing RTI/KSI
AA-4	District-Wide access to Edulastic for immediate feedback for formative and summative assessments	All Teachers	SY 23-24	Title V	TBD	Usage Reports
AA-4	Preschool – Grade 3 ESGI access for reading and math fluency data tracking and progress monitoring	All Preschool to 3 rd grade teachers	SY 23-24	Title V	\$7,200	ESGI Reports
AA-4	Implementation of NWEA MAP for K-9 universal screener.	Instructional Directors Director of Assessment Building Level Administrators K-8 Teachers	SY 23-24	General Fund	\$65,025	NWEA student, classroom and grade level growth and proficiency reports
AA-4	Implementation of Mastery Prep for 10-12 grade ACT predictive measures and prep course work	Instructional Directors Director of Assessment Building Level Administrators 9-12 Teachers	SY 23-24	General Fund	\$20,000	Mastery Prep Usage Reports ACT Predictive Measures ACT Scores
AA-1	Odysseyware is available for high schools for credit recovery, to middle schools and high schools for summer school, and to	HS OW Lab personnel Alternative setting teachers and	SY 23-24	ESS Flex Focus	\$65,000	Graduation rates, student grades, Odysseyware usage reports, Odysseyware completion reports

alternative programs				
coursework.	6-12 teachers			
	Building level			
	administrators			
	Curriculum			
	coordinators			
	6-12 guidance			
	counselors			
	District teacher			
	consultant			
	District level			
	administrators			



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)





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



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 Al	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1	District instructional staff will provide ongoing support to determine the best tool to meet the learning objective.	CIO District Leadership Digital Learning Coaches Instructional Coaches	Ongoing and continuous	N/A	N/A	Evidence from lesson plans, walkthroughs, and student data

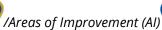
		Administration				
Al-1	District will provide beginning level skills for technology related tasks.	CIO Digital Learning Coaches Instructional Coaches	Ongoing and continuous	N/A	N/A	Meeting Agendas/Sign-ins Can show evidence that they can: - Sign into Google - Share a Document - Login with MFA - Create a Google Classroom - Login to IC - Login to Frontline - Login to email
AA-1	Provide and encourage training for Google Workspace tools.	CIO Digital Learning Coaches District and School Administrators	Ongoing and continuous	N/A	N/A	Measure with Google usage reports
AA-1	District will provide support to the Media Specialists and teachers in Digital Citizenship for staff and students.	CIO Digital Learning Coaches Media Specialists Teachers District Leadership	Ongoing and continuous	N/A	N/A	Feedback from Teachers and Administration; Completion of Digital Citizenship lessons and/or training sessions.

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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)





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



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 Al	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1	Google Classroom as online/virtual classwork	ALL teachers Digital Learning Coaches	Ongoing and continuous	N/A	N/A	All teachers are constantly using Google Classroom with students for meaningful lessons.
AI-1	Computer Lab Teachers having a curriculum with students on different lessons to learn how to use a device.	Lab Teachers Digital Learning Coaches	Ongoing and continuous	N/A	N/A	Feedback from Teachers and Administrators.

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AI-1	Continue implementation and use of Clever for SSO and cloud-based learning.	Digital Learning Coaches	Ongoing and continuous	N/A	N/A	Google Gopher usage reports, and Clever usage reports
		Teachers				
		Instructional Leadership				