

DISTRICT TECHNOLOGY PLAN

DISTRICT NAME Logan County Schools

LOCATION Russellville, Ky.

PLAN YEAR(S) 2023-2025



<http://logan.kyschools.us/>

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Planning Team

District Staff	
Tyler Davenport - Director of Technology	Paul Mullins - Superintendent
Eric Lyles - Systems Administrator	Joshua Matthews - K-12 Instructional Supervisor
Henry Bouldin - District Technician	Karla Paddock - Finance officer
Building Staff	
Lori Bouldin - Adairville School Principal	Caycee Spears - High School Principal
Kristina Rice - Auburn School Principal	Grant Warren - Lewisburg School Principal
Bonnie Spears - Chandlers School Principal	Katina Kemplin - Olmstead School Principal
Additional District Contributors	
Students	
Other	

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?

Goal: Install classroom audio system in areas where teachers need to be amplified

An initial installation of several audio systems were installed and proven to be effective for a larger deployment

Goal: Replace district core router

District core router was replaced with a newer, robust, and up-to-date core router

Goal: Require and implement MFA for all staff

MFA was enabled and enforced on all district accounts for Google and Microsoft accounts

Goal: Encourage teachers to increase use Google Classroom as a LMS for classroom instruction

- There was steady use of Google Classroom this school year with a high active Google classes of 440.

Goal: Implement use of new video conferencing software for distance learning and remote meetings

- District re-purchased Zoom as a video conferencing software for all instructional and admin staff to use

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

- Review and update district technology security policies and update district AUP as needed and as recommended by KSBA
- Increase STLP program for all schools in district offering STLP opportunity for students during school hours
- Develop a technology student helpdesk at Logan County High School
- Encourage teachers to complete Google Certifications Level 1 & 2 to improve on their knowledge in daily use of Google Suite
- Install power generators for all district MDF's and IDF's to provide 100% uptime of IP phones, IP cameras, door access control, and wireless internet access
- Implement a one to one distribution plan for the high school, involving every freshman receiving an assigned chromebook, keeping until graduation
- Touch and re-inventory all technology equipment in newly purchased Inventory Management Software

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

Goal Met: Install initial classroom audio systems in a few areas where teachers need to be amplified

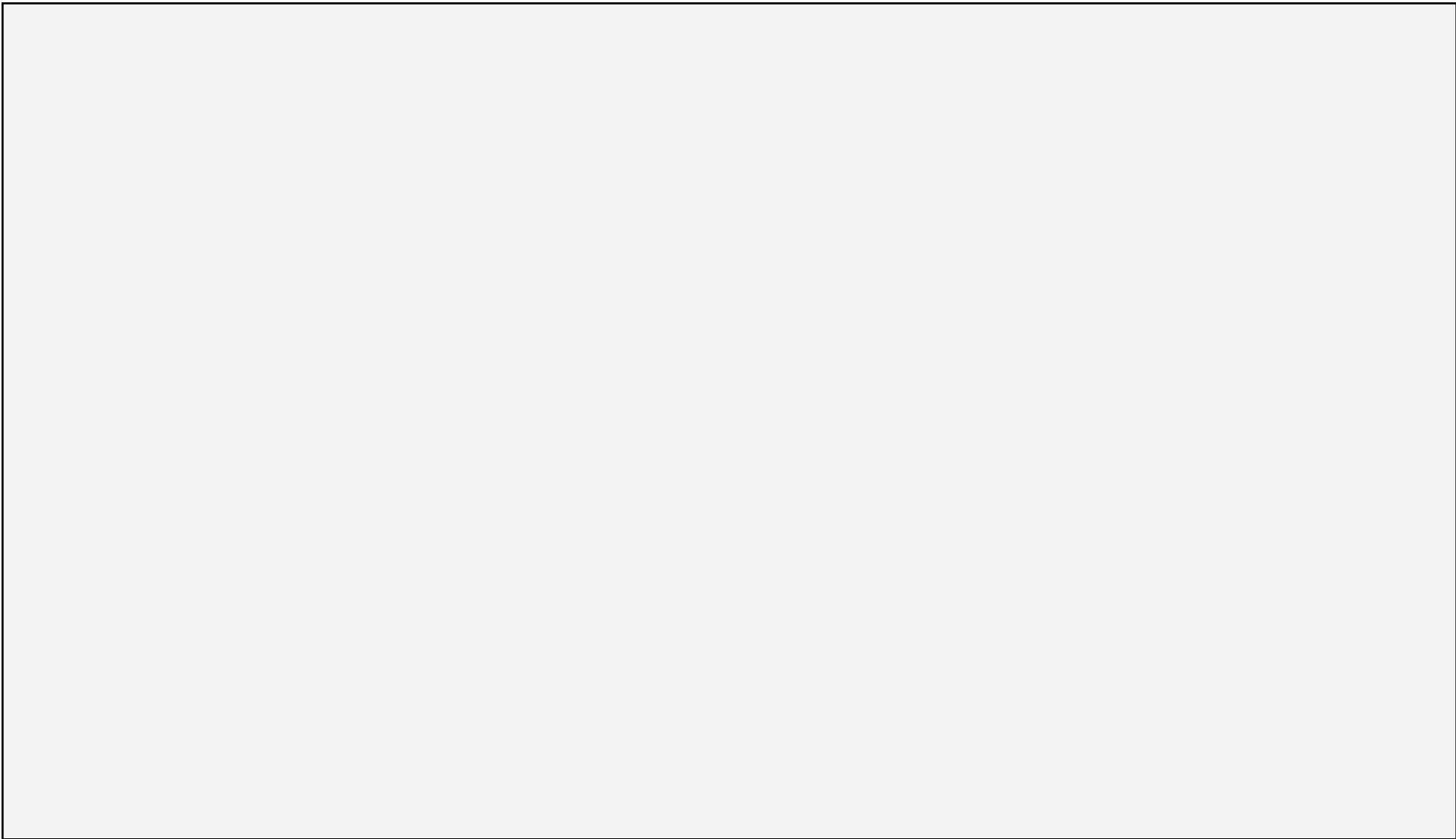
Goal Met: Replace district core router

Goal Met: Increase password complexity for all district staff and focus special emphasis on finance personnel accounts and security policies

Goal Met: Require and implement MFA for all staff

Not Relevant/Goal Not Reachable:

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



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 strategies and/or adjustments for this plan?

The Logan County Schools technology committee works closely throughout the year on many projects and collaboration. To determine our needs, input from the instructional curriculum team reports technical needs within daily classroom instruction. School administrators report technology instructional needs as viewed from their school staff. Logan county schools technology team helps assess these needs as a whole and works with all parties to accumulate a plan to create a technology roadmap for our district to aid in the teaching of our students.

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.

Logan County Schools technology implementation and improvement for 2023-2024 include:

- Install additional classroom audio systems in areas where teachers need to be amplified
- Implement a one to one distribution plan for the high school, involving every freshman receiving an assigned chromebook, keeping until graduation
- Install power generators for all district MDF's and IDF's to provide 100% uptime of IP phones, IP cameras, door access control, and wireless internet access
- Continue to utilize new ATC, offering student more career training and college dual credit opportunities
- Use of google forms to improve day-to-day district operation
- Train teachers on use of instructional classroom equipment
- Find and Implement a more robust teacher to parent communication system with app
- Touch and re-inventory all technology equipment in newly purchased Inventory Management Software
- Secure funding to replace all wireless infrastructure in all schools in the district
- Purchase and install a redundant path to each school using single fiber optics

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 does not currently have a method to collect student responses about their digital learning environment at a district level. Each school has their own method of surveying their students and shares individual data with district admin as needed.

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.

Information to be gathered from student survey(s):

Does the technology available to you in your classroom aid you in understanding classroom topics?

Do you feel you have adequate technology available in your classroom?

What suggestions do you have for the district to advance the use of technology in the classrooms?

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 (*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-2	Install power generators for all district MDF's and IDF's to provide 100% uptime of IP phones, IP cameras, door access control, and wireless internet access	CIO, Systems Administrator, vendor partner	2023-2024	General Fund	\$250,000	If there is power loss at schools doors can be entered with fobs, IP cameras will still record, IP phones will still be accessible, and wireless internet will still be accessible - 100% uptime goal desired
AA-1	Secure funding to replace all wireless infrastructure in all schools in the district	CIO, Systems Administrator, vendor partner	2023-2024	USF and General Fund	\$160,000	Highly functional core router will be installed and increased throughput will be utilized as device use is increasing
AA-1	Purchase and install a redundant path to each school using single fiber optics	CIO, Systems Administrator	2023-2024	ERATE and General Fund	\$50,000	Create a redundant network path to each school using single fiber optic technology
AI-1	Implement a one to one distribution plan for the high school, involving every freshman receiving an assigned chromebook, keeping until graduation	CIO, LCHS Admin, Systems Administrator, District Technicians	2024-2025	KETS	\$70,000	An additional 300 chromebooks will be distributed to every Freshman at LCHS and they will keep the chromebook until they graduate
AA-2	Install classroom audio system in areas where teachers need to be amplified	CIO, Systems Administrator, School Administration, District Technicians	2024-2025	General Fund	\$100,000	The district will evaluate and install audio enhancement system in classrooms that need additional amplification



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

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	Review and update district technology security policies and update district AUP as needed and as recommended by KSBA	CIO, Board Members, Superintendent	Ongoing	NA	NA	Board approval and AUP signature page from staff and students
AA-5	Continue implementation and increasingly add digital citizenship to student classroom education using free online Common Sense material as media source	Curriculum Team, Teachers, Principals	Ongoing	NA	NA	Signature sheet from all homeroom teachers
AA-2	Require and implement MFA for all staff	CIO, Systems Admin	2022-2023	NA	NA	In google admin, set each google staff account to require enabling

						multi-factor authentication
AI-1	Continue and increase staff material and awareness in regards to personal identifiable information regarding students and best practices to secure data in which contains student personal identifiable information as required by state law	CIO, Board members, Teachers, Principals	Ongoing	NA	NA	Board approval of letter sent by CIO ensuring staff training on PII



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

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	Schedule regular meetings with district Finance Officer and Superintendent to discuss future technology needs and the level of severity different purchases have on student learning	CIO, Finance Officer, Superintendent	Ongoing	NA	NA	Budgetary needs are met and key technology purchases are made to improve student learning
AI-2	Educate teachers on effective use of Google Suite to create and share digital material to colleagues and students to reduce need of printers in classrooms	CIO, Principals, Teachers	2023-2024	NA	NA	Google Admin reporting to show 20% increase in google drive use by staff
AA-2	Touch and re-inventory all technology equipment in newly purchased Inventory Management Software	CIO, Systems Administrator, District Technicians	2023-2024	NA	Na	Reports will be readily available at any time on the status of all technology equipment



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

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	Create contribution teams for social media platforms for each school and district to deliver events and good news	CIO, Superintendent, Principals, Media Specialist	2023-2024	General Fund	\$7000	50% increase in district and school social media followers
AA-1	Find and Implement a more robust teacher to parent communication system with app	CIO, Media Specialist, Principals	2024-2025	General Fund	\$10,000	Provide a single org owned platform for teachers to communicate to parents
AI-1	Continued partnership with SKyCTC to offer students college credit for successfully completing technical course tracks at Logan County Career and Technical Center	Guidance Counselors, LCHS Principal, Superintendent, SKyCTC	Ongoing	NA	NA	Increase in student enrollment at LCCTC and dual credit course completion



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

DISTRICT TECHNOLOGY PLAN

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	Increase STLP program for all schools in district offering STLP opportunity for students during school hours	CIO, Principals, Curriculum Team, Superintendent, Teachers	2024-2025	NA	NA	More students will become involved with STLP
AA-2	Develop a technology student helpdesk at Logan County High School	CIO, LCHS Principal, Superintendent	2024-2025	NA	NA	Students interested in technology will experience real world scenarios improving the troubleshooting skills
AI-1	Review use of third party curriculum software to determine if the software is enhancing learning and being utilized	Principals, Curriculum Team, Teachers	Ongoing	NA	NA	Third party software not making a great impact on instruction will be canceled so spending can be better utilized



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	Increase use of video conferencing software for distance learning and remote meetings	Principals, Superintendent, Teachers	Ongoing	General	\$30,000	Teachers, admin, and students will have great video conferencing experiences with remote classrooms and meetings
AA-1	Utilize Google Suite for paperwork or document submission as a requirement by School and District leaders	CIO, Principals, Superintendent	Ongoing	NA	NA	Increased use of google form submissions
AI-1	Encourage teachers to complete Google Certifications Level 1 & 2 to improve on their knowledge in daily use of Google Suite	Superintendent, Principals, Teachers	2024-2025	NA	NA	75% of all teachers Google 1 certified 100% of Technology Staff and School leadership Google 1 certified



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	Encourage use of Google Suite as LMS to provide material for students while away from district school campuses	Principals, Teachers	Ongoing	NA	NA	Increased classwork submission by students
AI-1	Educate staff on the use of Google Team Drives to collaborate and share digital material amongst colleagues in similar job roles and previously formed teams	Principals, Teachers	2023-2024	NA	NA	Increased number of Team Drive creation by 50%