

Kentucky Education Technology System DISTRICT TECHNOLOGY PLAN

DISTRICT NAME Oldham County

LOCATION LaGrange, KY

PLAN YEAR(S) 2023-2024

PENDING OLDHAM COUNTY BOARD OF EDUCATION APPROVAL



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Planning Team

District Staff [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, DAC, etc.]	
Trey Greenwell, Director of Technology / CIO	Jay Jones, Application Specialist
Christopher Payne, Assistant Director of Technology	Kara Hubbard, Application Specialist
Tracie Roberts, District Specialist	Van Scott, Voice and Data Specialist
Jennifer Woodson, District Technician	Melissa Beckley, District Technician
Brent Deaves, Assistant Superintendent of Support Services	
Building Staff [Recommended to include principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
Jennifer Dolan - Buckner Elementary School LMS/STC	Shannon Church - Buckner Elementary School STS/STC
Leslie Wolf - Camden Station Elementary LMS/STC	Charles White - Camden Elementary STS
Brandon Clark - Centerfield Elementary STC/LMS	Abbie Bean - Crestwood Elementary LMS/STC
Kayla Thurman - Goshen Elementary LMS/STC	Zachary Renolds - Goshen Elementary STS
Jessica Bailey - Harmony Elementary LMS/STC	Lauren Rataj - Kenwood Elementary LMS/STC
Melinda Hadley - La Grange Elementary LMS/STC	Katie Johnson - Locust Grove Elementary LMS/STC
Carter Kelly - Arvin Education Center STC/STS	Cheryl McCall - East Oldham Middle School LMS/STC
Max Valentine - North Oldham Middle School LMS/STC	Adam Williams - North Oldham Middle School STS
Lindsay Kokai - North Oldham High School LMS/STC	Theresa Morris - North Oldham High School STS
Melissa Crouch - Oldham County Middle School LMS/STC	Kara Storm - South Oldham Middle School LMS/STC
Denise O'Brien - Oldham County High School LMS/STC	Amy Vallieres - Oldham County High School STS
Noel Gnandinger - South Oldham High School LMS/STC	Karen Letender - South Oldham High School LMS
Additional District Contributors [Recommended to include board members, SBDM members, program directors, etc.]	
None	
Students [Recommended to include middle and/or high school students]	
None	

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?

- Part 1 - Monitor and maintain data on current inventory of district network infrastructure equipment
- Part 2 - Develop attestation process for computing devices in district offices
- Evaluate current use of new Wired and Wireless networks and adjust policies to provide ease of access for newly identified initiatives
- Part 1 - Continue to evaluate the ever evolving use of the District's Safety and Security programs
- Continue developing an Oldham County spiraling digital curriculum to include digital citizenship
- Continue/refine the process for software approval focusing on data privacy and security

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

- Part 2 - Develop a targeted change management process for network infrastructure
- Part 1 - Develop attestation process for computing devices in schools
- Part 2 - Maintain a training and research initiative to stay up to date with appropriate physical security practices
- Create a monitoring process or tool to ensure maintenance of our inventory including a replacement cycle plan - We need to refine this goal and hone in to continue this progress

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

- Continue developing an Oldham County spiraling digital curriculum to include digital citizenship
- Communicate or share current computing device inventory with school level decision makers to assist in the school technology purchasing plan, including maintenance for current devices and purchases for future needs
- Examine how sufficient, efficient and effective our district technology personnel are at meeting the needs of students and staff - Ongoing goal and continue to advocate but we need to reevaluate our strategies
- Examine the use of technology staff in schools in conjunction with SBDM decisions on personnel in schools and communicate data - Ongoing goal and continue to advocate but we need to reevaluate our strategies
- Explore avenues that were identified during non-traditional instruction to continue and expand device access both inside and outside the traditional classroom
- Promote Hour of Code event - need to change this and not just promote *one* event for students
- Update and maintain the matrix of vetted resources to increase instructional staff awareness of options for various digital learning needs
- STC will attend monthly meetings with district staff to share and receive updated information/resources for technology integration in their respective buildings.

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

- There has been a restructure of Technology and there is no longer a separate Instructional Technology department.

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?

This year was different; we had a quick adjustment and restructuring mentioned above. As a result, we had to make a quick pivot to our initial plans. As a result of timing we focused on the big rocks in the district and will plan to expand further by creating another multi-year strategic plan in the future.

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.

For the School Year 2023-2024, we will be planning on completing several infrastructure projects as well as starting a few new ones.

Over the past five (5) years we have been replacing our aged Interactive Classroom equipment (projectors, classroom audio, etc.) with Interactive Flat Panels. With this implementation we have replaced nineteen (19) out of our twenty (20) schools' equipment. Throughout this process we have engaged teachers in each building to evaluate and select the best panels for their school. Next year we will have one remaining school to replace equipment and train staff.

Six (6) years ago we had replaced all wireless and wired network infrastructure throughout the district. School Year 2022-2023 has seen the second refresh to maintain a robust and dense wireless network infrastructure. During School Year 2023-2024, we will complete the second refresh of the wireless network which will allow us to move forward with additional network refreshes in future years.

In School Year 2023-2024 our Safety & Security server infrastructure will be going end of life and we are anticipating refreshing that equipment as well.

All of these items are on the operational side, however, these will greatly impact the quality of instruction within our classrooms.

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)?

No

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)
AA-4	Continue to encourage the use of instructional programs and administrative processes utilizing technology which best fits the usage.	CIO, STCs, stakeholders	Ongoing	N/A	Unknown	Efficient usage and adoption of programs throughout the district.
AA-2	Monitor and maintain data on current inventory of district network infrastructure equipment; Develop a targeted change management process for network infrastructure.	CIO, Voice and Data Specialist, Server Specialist	Ongoing	N/A	N/A	Network infrastructure will always have an up-to-date inventory and configuration. Changes will be documented and will supplement the inventory/configuration.
AI-1	Implement device attestation process for computing devices in schools and district offices.	CIO, District Technicians, STCs	Ongoing	N/A	N/A	Gathered inventory will be maintained and kept up to date; Assets will be "verified" that they still exist and are where they are supposed to be within the district.
AA-3	Implement wireless refresh plan for second half of the district.	CIO, Voice and Data Specialist, Vendor partner	June 30, 2024	General Fund, E-Rate	\$366,659.51	Entire district will have new and up to date wireless infrastructure.
AA-2	Collaborate with the Department of Education, vendor partners and stakeholders to successfully implement the Next Generation K-12 Internet.	CIO, Superintendent, District and School Leaders	June 30, 2024	N/A	N/A	Oldham County is transitioned to the NGKI.



AA-4	Continue to encourage the use of modern Identity Management practices for authentication and authorization to cloud-based services.	CIO, KSIS, District Technicians	Ongoing	N/A	N/A	The number of applications utilizing these practices will increase.
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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-1	Continue to refine the process for software approval focusing on data privacy and security.	CIO, Application Specialists, Assistant Director of Technology	Ongoing	N/A	N/A	Process for students and teachers will become more seamless and user friendly.
AI-1	Continue to evaluate the ever evolving use of the District's Safety and Security programs. Maintain a training and research initiative to stay up to date with appropriate physical security practices.	CIO, Director of Facilities, Director of Student Services	Ongoing	General Fund	\$250,000	The district will maintain knowledge and stay on target to provide physical safety for staff and students within the buildings.
AI-1	Continue to refine our policies and procedures as it relates to assigning permissions to critical systems such as MUNIS, Infinite Campus and Genetec.	CIO, Director of Finance, Director of Personnel	Ongoing	N/A	N/A	Continue to see improvements in our security posture within these applications.
AA-3	Analyze Impact survey data.	CIO	Every two years	N/A	N/A	Use of data to improve technology access, use, and effectiveness to address goals in the technology strategic plan and technology plan.












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)
AI-2	Implement and monitor a district-wide copier contract.	CIO, CFO	June 30, 2024	General Fund	Varying	District will have a standardized and set price for their copiers throughout the district.
AA-3	Implement wireless refresh plan for second half of the district.	CIO, Voice and Data Specialist, Vendor partner	June 30, 2024	General Fund, E-Rate	\$366,659.51	New and up to date wireless infrastructure.
AA-2	Promote the usage of computing device inventory with school level decision makers.	CIO, STCs, Principals	Ongoing	N/A	N/A	Schools will have the information they need to to efficiently maintain computing equipment within their building.
AA-2	Use district network inventory data to monitor maintenance for current equipment and purchases for future needs.	CIO	Ongoing	N/A	N/A	Plan will exist for refresh cycle and present to the Board annually; Multi-year forecast will be presented to continue talks on maintenance.
AI-1 AI-2 AI-4	Evaluate our current state of tech, and use that information to develop a 2 - 5 year budget forecast for infrastructure, devices and human capital.	CIO, Assistant Superintendent of Support Services	Ongoing	N/A	N/A	An informed 2 - 5 multi-year budget forecast will be developed during each budget cycle.
AI-1	Continue to advocate the current personnel and duties to set a goal of where we want to be in 2 - 5 years.	CIO, Superintendent, Assistant Superintendents	Ongoing	N/A	N/A	Stakeholder data will be reviewed and used to create a 2-5 year goal.


AA-1	Implement the process to ensure maintenance of our inventory including a replacement cycle plan.	CIO	Ongoing	N/A	N/A	Schools will have a replacement cycle plan that is informed by their building needs.








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)
AA-2	Explore new opportunities for students to experience technology co-op, internships, etc.	CIO, STCs, Principals	Ongoing	N/A	N/A	Collection of opportunities that extend students' experiences











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-3	Advocate the integration of the Oldham County spiraling digital curriculum and digital citizenship.	CIO, LMSs, Assistant Superintendent for Student Achievement	Ongoing	N/A	N/A	Digital curriculum will be integrated with the existing curriculum.
AA-4	Continuation of Naviance for ILPs (6-12).	Assistant Superintendent of Student Learning, Secondary Director, MS & HS counselors	Ongoing	General Fund	TBD	ILP requirements completed for graduation.
AA-1	Find and promote opportunities for students to interact with the local and global community. I.E. Hour of Code.	CIO	Ongoing	N/A	N/A	Participation numbers from schools will increase.
AA-4	Evaluate the effectiveness of NWEA MAP online assessment for grades K-8.	Assistant Superintendent of Student Learning, Elementary and Secondary Directors, Principals	June 30, 2024	General Fund	TBD	NWEA MAP will continue for the 2023 - 2024 School Year or another software application will be used for design of instructional interventions.



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-2	Explore opportunities to take advantage of existing staff to fill the gap of the Instruction Technology Department.	CIO, District Leadership, School Leadership	Ongoing	N/A	N/A	The districts' need for technical integration will continue to be supported.
AI-2	Develop a systematic approach to training support staff on technology required for their jobs.	CIO, Assistant Superintendent of Support Services	Ongoing	N/A	N/A	Staff will receive the support they need to be efficient and effective with the tools within the district.



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	Develop a curated list of digital resources organized by levels.	CIO, LMS, STCs	June 30, 2023	N/A	N/A	Updated catalog of resources will be readily available for staff and students.