

Kentucky Education Technology System DISTRICT TECHNOLOGY PLAN

DISTRICT NAME Russell Independent Schools

LOCATION Flatwoods, KY

PLAN YEAR(S) 2022-2023



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Planning Team

District Staff [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, DAC, etc.]	
Greta Casto, CIO	Sean Horne, Superintendent
Ashley Dillon, Network Administrator	Dennis Chambers, CFO
James McCracken, District Technician	Heather Aldrich, CAO
Sam Malone, District Technician	
Building Staff [Recommended to included principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
Robin Clay, LMS	Mark Casto, Counselor
Jill Banks, LMS	Missy Murray, STEAM Teacher, STLP Coach
Paige Ladd, LMS	Shane Jordan, STEAM Teacher, STLP Coach
Julie Gullett, LMS	
Additional District Contributors [Recommended to include board members, SBDM members, program directors, etc.]	
Becky Roark, FRYSC	John Jones, Board Member
Stacey Thompson, RATC Principal	
Students [Recommended to include middle and/or high school students]	
Arnav Dharmaghadda, RHS Junior	Delaney Hetzer, RHS Senior
Other [parents/community members, business and nonprofit leaders, etc.]	

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?

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 ?

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.

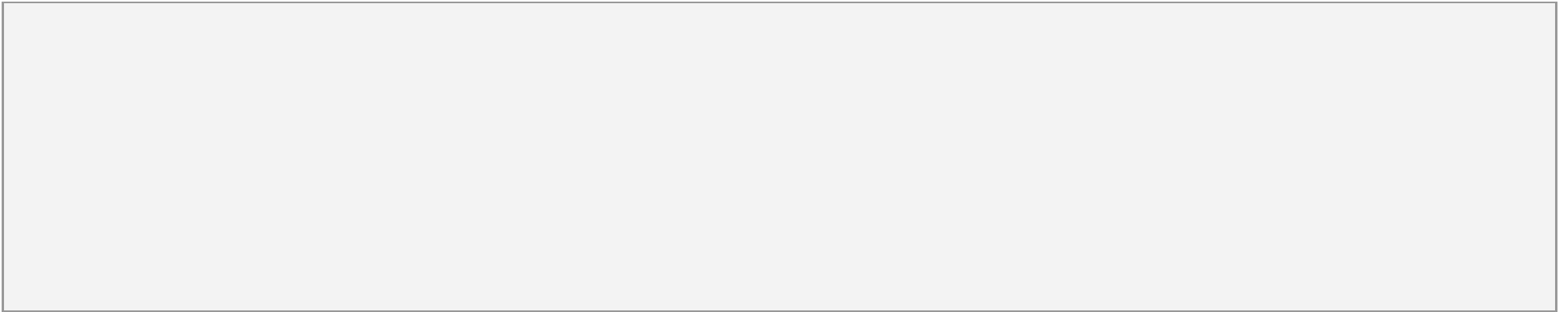
[See [Technology Planning section of KETS Master Plan](#) for more information]

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

Following the Impact Survey, the Technology Department revisited the questions involving technology and constructed a survey that explored the reasons for the answers given on the IMPACT in an effort to glean more information to guide the planning team in evaluating last year's strategies to see what was completed, what still needed to continue as a goal, and then to capture the things that the teachers felt we needed to include as future goals. This year was the first phase of our 1:1 and we will continue to tweak our plan to ensure sustainability.

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.

This year was the first phase of our 1:1 and we will continue to tweak our plan to ensure sustainability. All Admin Team is working to make the transition to sustainability without the use of Federal Relief Funds. This will directly impact the delivery of curriculum and instruction. Another major project is to hardwire all interactive devices to access the internet independently of the instructional computer, offering more flexibility in instruction and presentation for both students and faculty. Professional Development this year (in technology driven professional learning) will focus on the needs identified in the Faculty Survey that followed the IMPACT Survey.



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)?

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.

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 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 AI	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 support wireless infrastructure and work towards saturation. (Place 35 remaining access points)	CIO, Network Administrator, Vendor Partner	Ongoing	Erate KETS General Fund-15% of the cost of the project	To be determined	KETSview logs Wireless usage logs
AA-2	Monitor Network switches as needed	CIO, Network Administrator, Vendor Partner	Ongoing	Erate KETS General Fund-15% of the cost of the project	To be determined	The new equipment will provide a stronger and more secure network
AA-2	Replace/install UPS battery backups as needed	CIO, Network Administrator, Vendor Partner	Ongoing	Erate KETS General Fund	To be determined	Provides protection of our networking equipment, provides a safe way for the equipment to power down and back up after power outages. We will have fewer network outages and loss of configuration due to forced shutdowns during power outages or surges.
AA-2	Continue to repair, update, consolidate servers into VM solution, routers, and other networking equipment as needed. Purchase FOGG server for deployment solution.	CIO, Vendor Partner	Ongoing	Erate KETS General Fund-	To be determined	New equipment will provide a stronger, reliable and more secure network

AI-1	Track and analyze data from Spice Works ticketing system to improve stakeholder service.	CIO, Network Admin, District Technicians	Ongoing	KETS, PSC	\$500	Monitor reports from Technology Requests as posted in the Spice Works system to chart progress.
AI-1	Identify and upgrade all devices to uniform Windows OS and Mac OS. Devices that can not be upgraded will be converted to Chrome devices or surplus.	RIS Tech Office Finance Director	Ongoing	KETS	To be determined	KDE EPO Report District Digital Readiness Survey
AA-4	Support a safe and monitored school environment.	CIO, Network Admin, Maintenance Director	Ongoing	General Fund Safe Schools	To be determined	Safe Schools Report
AI-1	Continue to Improve ease of access for students and staff through continued 1:1 student to computer ratio utilizing increased amounts of mobile devices.	CIO, Network Admin, Principals, Finance Director	Ongoing	KETS Title I Grant Funds General Fund	To be determined	Improve student to computer ratio
AA-4	Continue to encourage the use of instructional programs and administrative processes requiring cloud-based services.	CIO, Network Admin	Ongoing	KETS General Fund	To be determined	Google Analytics
AA-3	Provide Internet access opportunities to students who do not have high quality access at home.	CIO, Network Admin	Ongoing	KETS ESSER Funds General Fund	To be determined	Home Access Survey Online Registration Teacher Referral FRYSC Referral



						Community Agencies
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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 (*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-5	Continue digital citizenship education in K-12 classes	CIO, STEM Specialists, Library Media Specialists, School Counselors	Ongoing	None	\$0	Digital Driver's License Reports Lesson plans School Reports
AA-3	Continue to use surveys of stakeholders and use results to develop a plan for improvement of resources and services	District Admin staff	Annually	Provided by State	\$0	Impact Survey, Student voice, Technology Activity Report, Digital Readiness Survey
AI-1	Recurring confidentiality training to include data security and privacy.	District Admin Staff	Annually	General Fund	\$0	Staff Meeting Agendas
AA-2	Regularly monitor and modify as needed Lightspeed and Lightspeed Relay policies to enable effective instruction and mitigate emerging threats.	CIO Network Admin	Ongoing	No Cost to District	\$0	Lightspeed logs
AI-1	Utilize Microsoft A3 Security license provided by KDE and roll out systematically. (SSO, MFA for admins, annual analysis of Office 365 Policies, etc.)	KDE CIO Network Admin	Ongoing	No Cost to District	\$0	Review Azure reports










Budget & Resources

Future Ready Gear

KETS GUIDING PRINCIPLE – The Master Plan, as well as district and school technology plans, are aligned to the vision of 21st century skills for students and staff. Revenue streams are aligned to account for the recurring and nonrecurring total cost of ownership to support the 21st century learning environment in a manner that reflects good stewardship of tax dollars to include devices, infrastructure, support, data and human services.

Areas of Emphasis: Areas of Acceleration (AA)  / Areas of Improvement (AI) 

-  **AA-1** Continue to maximize local and state education technology expenditures through a system of shared/brokered/managed services
-  **AA-2** Continue use of long-term planning strategies that allow for continuity of initiatives and systems (*ex. Accounting for cost of ownership over the lifespan of equipment so monies are allocated for repairs/upgrades*)
-  **AA-3** Continue to leverage all available state and federal funding opportunities to address required basic cost of living increases, previous budget cuts of basic services, projected growth by districts (*e.g. Internet consumption*) while maximizing education technology programs and initiatives (*Technology Need, E-rate*)
-  **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** 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*)



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 AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-2	Plan and budget accordingly to upgrade/replace/refresh staff and student devices (Outline set refresh plan for each year and modify as needed)	CIO Superintendent Finance Director	Annually	KETS PSC General Fund Federal Relief Funds where applicable	To be determined	Digital Readiness Survey Technology Activity Report School Report Card
AA-3	Apply for E-rate funds as eligibility and budget allow.	CIO Finance Director Superintendent	Annually	USAC KETS General Fund Federal Relief Funds where applicable	To be determined	USAC Application Approval
AI-1	Continual evaluation of staff allocations to support district technology initiatives.	District Admin team	Ongoing	General Fund Federal Relief Funds where applicable	To be determined	The ratio of devices to technicians The ratio of students to Digital Learning Coaches Alignment with KDE recommendations for technology staff
AI-2	Continue evaluation of printing/print services and	CIO Finance Director Principals	Ongoing	General Fund	To be determined	Review printing services contracts TAR Report



	investigate methods to reduce expenditures					
AA-2	Evaluate and refresh interactive classroom equipment to allow for continuity of instructional initiatives of the district. (Focus on finishing interactive board project and hard wiring those devices)	District Leadership	Ongoing	Esser SBDM Funds PTA/O Funds KETS General Funds Federal Relief Funds where applicable	To be determined	Data from the Digital Readiness Report
AI-1	Provide staff to adequately fill technology support roles and services in instructional and technical areas (DLC, STLP, Robotics, IT Staff, etc...)	BOE District Leadership	Ongoing	General Fund KETS Federal Relief Funds where applicable	To be determined	KDE People Side of Technology Document








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



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	Maintain a District website, mobile and social media presence.	District Admin Team	Ongoing	KETS General Fund	\$10,000	Data usage logs
AA-2	Work with local businesses or organizations to support student technology initiatives.	Educational Stakeholders	Ongoing	N/A	\$0	Reduction in overall non-participation numbers










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	Sustain and expand mobile devices provided by the school. In addition, students will be allowed to utilize their own personal devices.	CIO Principals CFO	ongoing	KETS General PTA funding REEF	20,000.00	TAR Digital Readiness Survey
AA-2	Student Technology Leadership Program (STLP)	CIO School Coordinators	Ongoing	General Fund	\$7500	STLP Competition Participation and Results
AA-2	Robotics	CIO School Coordinators	Ongoing	General Fund	\$7500	Competition Participation and Results
AA-3	Incorporate the new Library Media/Computer Science/Technology Standards for all students in Library Media/STEM Lessons	Principals LMSs CIO STEM Teachers	Ongoing	No Cost	No cost	Lesson Plans Classroom Evaluations/Walkthroughs Student Work
AA-5	Google Workspace for Education will be utilized as a hybrid for online coursework	CIO STEM Specialists Library Media Specialists Google	Ongoing	General Fund	No Cost to the district	Track number of Google Certified Educators Google Admin Reports



		Certified Educators				
AA-2	Device Neutral Assignments will be the focus of all professional development and classroom resource assistance.	District LMS CIO	ongoing	No Cost	No Cost	Lesson Plans Student Work
AA-2	PD sessions will be offered to focus on student use of technology to collaborate, evaluate information, and gather information to increase student engagement in physical classrooms and any online instruction.	CIO, Classroom Teachers	Ongoing	No Cost	No Cost	Learning Walks PD Attendance Reports
AI-3	Support online state summative assessments at elementary, middle, and high schools levels.	CIO, DTC, DAC, and School Principals	Ongoing	No Cost	No Cost	Issue free testing sessions



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	Staff will be trained to utilize Google Workspace for Education to encourage digital collaboration. This will be modeled by administration.	District Admin Staff Teachers Digital Learning Coaches	Ongoing	Title 1 General Fund	\$0	Track number of educators utilizing team drives. (i.e. living calendar; Shared Drive for faculty; Collaborative Documents for committees, etc.)
AI-1	Staff will be trained and encouraged to certify in various micro-credential	District Admin Staff Teachers	Ongoing	Title I General Fund	To be determined	Track number of educators receiving micro-credentials.



	programs related to technology.	Digital Learning Coaches				
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.	CIO, Principals, CAO Digital Learning Coaches	Ongoing	No Cost to District	No Cost To District	Google Analytics, PD Evaluations



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 the use of Google Classroom and other online tools to deliver high quality instruction.	ALL	Ongoing	N/A	\$0	Google Admin console Lightspeed logs, Clever Analytics
AA-1	Encourage the development of Makerspaces K-8	Library Media Specialist, STEM Specialists	Ongoing	General Fund Section 6	To be determined	Number of Makerspaces and examples of student work

AI-1	Educate and support teachers and parents in the implementation of digital learning tools and portable technologies that foster anywhere, anytime access for staff and students.	All	Ongoing	To be determined	To be determined	Google Logs Parent Surveys
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