

# DISTRICT TECHNOLOGY PLAN

**DISTRICT NAME** Menifee County Public Schools

**LOCATION** Means, KY

**PLAN YEAR(S)** 2021-2022



[www.menifee.kyschools.us](http://www.menifee.kyschools.us)

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## Planning Team

<b>District Staff</b> [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, DAC, etc.]	
<b>Tim Spencer - Superintendent</b>	<b>Maynard Stevens- DTC/ Head Technician Specialist</b>
<b>Paul Ricker- Technology Technician</b>	<b>Lorri Bartley - Finance Officer</b>
<b>Jodi Blackburn - Director of High-Quality Instructional Systems</b>	
<b>Building Staff</b> [Recommended to include principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
<b>Kelli Abney - MES K-8 Principal</b>	<b>Katlin Haney - MCHS Principal</b>
<b>Jacquelyn Parsons - Digital Learning Coach</b>	<b>Sally Morris - Digital Learning Coach</b>
<b>Additional District Contributors</b> [Recommended to include board members, SBDM members, program directors, etc.]	
<b>Students</b> [Recommended to include middle and/or high school students ]	
<b>Other</b> [parents/community members, business and nonprofit leaders, 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 district expanded 1:1 to devices to include K-2 students and all K-12 classrooms/students utilized Google Classroom as their LMS. Google Level One Certification training was provided by EdTech to all district certified staff and the district is on their way to reaching 40 Google Certified teacher goal. Based on technology needs assessment, the district refreshed 50 teacher laptops to higher performance devices with modern security. The district continues to support three Digital Learning Coaches that support the integration of technology into the classrooms.

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

Provided professional learning related to data security and privacy could have been more impactful. While technology standards were embedded into instruction, there is not a formal process for tracking pacing.

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

Replace/install UPS battery backup and Windows 7 upgrades have been completed.

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

Implementation of tracking and professional learning on data security, safety, and privacy. Full development of a district wide STLP program. Feedback from students.

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## 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?*

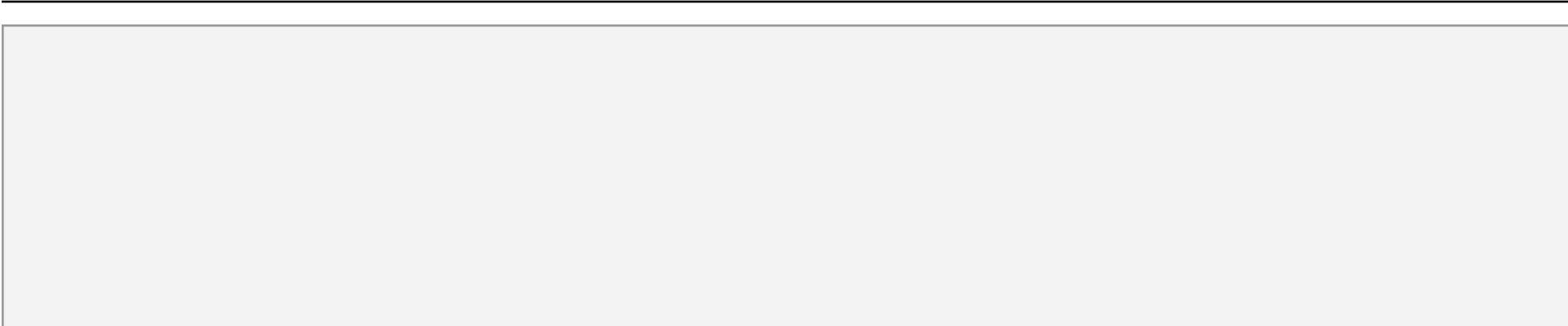
We met multiple times to discuss the plan and what should be included. We met with individuals or groups we thought would have insight on different areas.

*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.*

Our focus is high on our students this year being the first for our Student Technology Leadership Program, student helpdesk, and potentially three DataSeam technology apprenticeships. Our teachers will continue to expand their technology skills through professional development and support from technology team members. We will continue to refresh our network infrastructure and user devices to provide a positive and efficient experience for our students and staff.

We hope allowing students access to hands-on experience through our STLP student helpdesk will take their tech knowledge to the next level while building valuable skills they can use in their daily lives or choose to pursue as a career. The added capacity from our apprentices, helpdesk, DLCs, and STLP coaches will enable future growth with our technology department and district as a whole.

Vital updates to our network infrastructure will ensure we continue to provide the reliable, quality access to the internet our instructional program requires. Our information security will continue to improve as we catch up on system updates and we begin to implement modern security practices. Student voice surveys will give us insight to possible unmet needs we were previously unaware of.



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## 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 specific method.

*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.*

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## KETS Master Plan Areas of Emphasis

### Connected to the Future Ready Framework

The Future Ready Framework identifies seven Gears to assist districts in developing a roadmap for student success through personalized student learning and collaborative leadership. The KETS Master Plan has identified 37 Areas of Emphasis connected to the Future Ready Framework and are categorized as either *1) Areas of Acceleration (AA)* or *2) Areas of Improvement (AI)*. The “areas of acceleration” are considered big wins, successes, and major milestones of the KETS are identified for continuation work. The “areas of improvement” address emerging areas based upon growth or decline metrics, research, needs assessments, and reporting by Kentucky school districts.

Use the Areas of Emphasis and Future Ready Framework as a lens to analyze current trends, initiatives, needs and goals of your district. Link the work of this new plan identified by your planning team to the Gears and Areas of Emphasis of the KETS Master Plan on the following pages. There is no expectation to address all 36 Areas of Emphasis of the KETS Master Plan. Any strategy that involves Erate, please include in the Budget & Resources gear. If your district has lease agreements (i.e.; device, fiber, etc.), be prepared to reference the quantity during the final submission process.












## Robust Infrastructure & Ecosystem

*Future Ready Gear*

**KETS GUIDING PRINCIPLE** – A robust infrastructure is one that delivers the device, network and support needs of staff and students to create personalized learning environments using digital tools and resources.

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

 AA-1	Continue to provide nation’s first, fastest, highest quality, and most reliable internet access to 100% of Kentucky’s public schools
 AA-2	Continue to ensure equity and standardization for delivery of device, network, data and support creating best in class staff and student digital experiences AND provide a system of shared/brokered/managed services maintaining low infrastructure costs and providing support structures promoting the use of personalized learning environments
 AA-3	Continue to create a culture of digital connectedness through all- the-time, everywhere, always on digital opportunity and access with emphasis on dense Wi-Fi throughout schools <i>(also including home access, Wi-Fi buses, school and classroom Wi-Fi, etc.)</i>
 AA-4	Continue to encourage the use of instructional programs and administrative processes requiring cloud-based services
 AI-1	Improve ease of access for students and staff through continued progress toward 1:1 student to computer ratio utilizing increased amounts of mobile devices <i>(fewer traditional computer labs)</i>



KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA2	<i>Upgrade wireless network with a brokered network as a service partner including collapsing to a single SSID.</i>	<i>CIO, Vendor Partner</i>	<i>completed by Aug 1, 2022</i>	<i>Erate KETS General Fund Federal Program Grant School-based Other</i>	<i>\$5000</i>	<i>Usage increases by 50% and devices connected increases by 20% per day.</i>
AA-2	Development of Munki MacOS Software deployment platform.	DTC/CIO Head Technician	Completed by Dec. 30, 2021	N/A	\$0	Increased instructional time through more efficient device workflows. (Munkireport)
AA-1	Develop replacement plan for aging Wifi Access points with updated models with current features.	DTC/CIO Head Technician	Spring 2022	Erate General Funds	TBD	Increased coverage and availability with less network latency.
AA-2	Collaborate with Gateway HeadStart and DOJ to extend internet access to newly leased buildings.	DTC/CIO Director of Personalized Learning	Fall 2021	General Funds	\$1,000	Increased usage as monitored through Extreme Network Management Console.



## 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

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 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)
AA2R	Replace network switches	CIO Head Tech Vendor Partner	Completed by July 23, 2021 at Menifee Central  Ongoing	Erate KETS General Fund	\$5,000	New equipment will provide a stronger and more secure network
AI-1	Develop and implement a consistent data analysis protocol for tech department	CIO Head Tech Director of High-Quality Instructional systems	Ongoing	N/A	\$0	Application of analysis to increase effectiveness of the technology department to meet the needs of staff and students.
AA-4	Infinite Campus SSO Integration	CIO Director of Support Services	Fall 2021	KETS	\$0	Strengthened security from unified password systems.
AA-1	Update MacOS on DataSeam iMacs	CIO Head Tech	Fall 2021	N/A	\$0	Device software will align with current security standards.












## 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) 

 <b>AA-1</b>	Continue to maximize local and state education technology expenditures through a system of shared/brokered/managed services
 <b>AA-2</b>	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>
 <b>AA-3</b>	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>
 <b>AA-4</b>	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>
 <b>AA-5</b>	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
 <b>AI-1</b>	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>
 <b>AI-2</b>	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>

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**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
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**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-1	Implementation of STLP student help desk to reduce cost of repairs and return on student devices	CIO/DTC Head Technician STLP Coaches,	Fall 2021	General Fund	\$2,000	Reduced cost of repairs and increased capacity in student technology skill sets monitored through IT tickets.
AA-2	Plan and budget accordingly to replace/refresh student devices	CIO/DTC Superintendent Finance Officer	Review Annually	General Fund KEDS	\$	TAR Digital Readiness School Report Card
AI-1	Establish clear roles for technology department	CIO/DTC Head Technician Director of High-Quality Instructional Systems DLCs	Fall 2021	N/A	\$0	Greater awareness of position.roles requiring technology -related duties in support of technology and instruction.








**Partnerships**

*Future Ready Gear*

**KETS GUIDING PRINCIPLE** - Connecting students and educators to the local and global community is a key factor to student success. The Master Plan will continue to provide opportunities for trusted relationships to build those connections as well as increase communication and transparency with shareholders, including families, districts, vendors, regional education collaboratives, postsecondary institutions and business/industry, in support of student learning and preparation beyond K-12.

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

 <b>AA-1</b>	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> )
 <b>AA-2</b>	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> )
 <b>AA-3</b>	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> )
 <b>AI-1</b>	Partner with postsecondary pre-service teacher and principal programs to provide support in candidate preparation
 <b>AI-2</b>	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-3	Leverage partnership with Dataseam to establish student internship program	CIO/DTC Head Technician	Fall 2021	General Fund	\$9,000	Increased capacity in student leaders through technology and employment.
AA-1	Update website to reflect upcoming changes to district placements and schools.	CIO/DTC Head Technician	Summer 2021	N/A	\$0	Increased usage of district website by families, districts, and partners.










## 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



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-2	Every school will have a recognized STLP Program	DTC Principals Teachers Students	August 2021-Ongoing	KETS General Funds	\$2,000	Attendance at Regional and State STLP Events STLP Student Participation AA-4
AA-4	Provide access to online assessment tools (Universal Screener, Interim, Benchmark, Formative and Summative)	DTC DAC BACs Teachers	Ongoing	General Funds	\$45,000	Increased student performance data. (CASE 21 Data, CERT Data,iReady K-PREP and Gradecam )
AA-5	Provide each school with a Digital Learning Coach (DLC)	DTC/CIO Director of High-Quality Instructional Systems Principals DLCs	Ongoing	General Funds	\$2,500	Increased capacity in teachers ability to utilize technology in instruction. (Coaching logs, Tech Cadre minutes, Professional Learning Logs)
AI-2	Provide opportunities for high school students to take AP Computer Science, as well as web design/coding courses and digital literacy to support CTE Pathways.	Director of High-Quality Instructional Systems Principal Teacher	August 2021	No additional cost	\$0	MCHS Master Schedule and CTE Pathways
AA-2	All students K-12 will have access to technology courses aligned to the KAS	Director of High-Quality Instructional	August 2021	N/A	\$0	Increased opportunity to demonstrate learning connected to and through technology

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	Technology Standards.	Systems Principal Teacher				(Master Schedule)
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**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	Continue to increase the number of teachers who are Google Certified Educator Level One and Level Two Certified	DTC/CIO Director of High-Quality Instructional Systems DLCs	Spring 2022	General Funds	\$300	Increased number of teachers with Google Certification.
AI-1	Digital Literacy Coaches will work towards becoming Google Certified Trainers, as well as attend DLC Summits	DTC/CIO Director of High-Quality Instructional	Spring 2022	General Funds	\$100	Increased capacity of Digital Learning Coaches. (Google Certified Trainers, Professional Learning Logs)

	and KySTE Conference.	Systems DLCs				
AI-1	Continued implementation of District Tech Cadre to identify and address teacher digital learning professional learning needs including effective use of technology resources.	DTC/CIO Head Technician Director of High-Quality Instructional Systems DLCs	On-going	N/A	\$0	Increased awareness of teacher professional learning needs and opportunities. (Professional Learning Schedule, Teacher Needs Assessments, Tech Cadre Minutes)



### 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	Adopt and implement the use of online K-12 Curriculum (Edgenuity).	Director of Support Services Director of High-Quality Instructional Systems Instructional Coaches	Fall 2021	General Funds	\$25,000	Implementation of Menifee Virtual Academy for the 2021-22 School Year. (User Logs, increased Student performance)
AI-1	Launch and fully implement a student help desk to	DTC/CIO Head	Spring 2022	N/Z	\$0	Increased availability of technology help for parents, students,

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	provide extended technology support to more stakeholders.	Technician STLP Coaches Students				teachers, and the community. (IT Tickets)