

DISTRICT TECHNOLOGY PLAN

DISTRICT NAME Owen County

LOCATION Owenton, KY

PLAN YEAR(S) 2021-22



<http://www.owen.kyschools.us/>

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Planning Team

District Staff [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, DAC, etc.]	
Carrie Wilhoite, DTC	
Lisa Allen, TRT	
Dr. Robert Stafford, Superintendent	
Dr. Reggie Taylor, Director of Curriculum and Instruction	
Kathy Faulkner, Finance Director	
Building Staff [Recommended to include principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
Sarah Hodges, MBMS Principal	Billie Smith, OCES Teacher/STC
Mandy Parker, MBMS Teacher/STLP coordinator	
Gail Forsee, OCES Teacher/STC/STLP coordinator	
Laura Dorton, OCHS/STLP coordinator	
Susan Young, OCHS LMS/STC	
Additional District Contributors [Recommended to include board members, SBDM members, program directors, etc.]	
Cara Stewart, Board Member	
Students [Recommended to include middle and/or high school students]	
Hagen New, OCHS Student	
Other [parents/community members, business and nonprofit leaders, etc.]	
Rachele Cobb, OCHS/MBMS Parent	

Previous Plan Evaluation

In this section include a discussion of the “expiring” (*previous year’s*) plan using the prompts below. Attempt to limit your narrative to the space provided.

What goals were met?

Workstations are all less than five years old and we have stayed with our 20% replacement plan. Our STLP is still being used to address our technical needs. We continue to carry maintenance on our core network, switches, routers, phone system, etc. Currently, every teacher/classroom has an ipad or chromebook, projector, mobi, interwrite board, and ladibug. Every student grade K-12 will be issued a chromebook.

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

STC and STLP coordinator training and monthly technology committee meetings. Time did not permit however, it is documented that job descriptions will be created and evaluated.

Areas of improvement?

The Owen County technology worked to increase the number of devices for students. We have funded a 1:1 initiative.

Areas/goals that are no longer relevant?

N/A

Needs that emerged after evaluation of the previous plan?

Training for staff on a variety of technologies along with STC job duties.

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 goals for this plan?

The planning team continually discusses the needs of the district and brainstorms for ways we can improve the technology in Owen County Schools throughout the school year. We discuss the success of our technology goals and solutions and make changes accordingly. We have discussed ways to implement the technology and evaluate our success in meeting the goals of our technology plan. We currently use the school improvement plans of each of our schools as well as the district plan to identify ways technology can improve student learning and achievement. Our plan is evaluated and revised as needed.

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.

In order to meet the Owen County Schools Mission & Vision which is to provide opportunities and resources where all students will develop perseverance and a passion for life-long learning in a safe supportive educational environment. We have outlined our goals, vision, needs, and solutions. We believe technology is a tool to improve student learning. Teachers are the guides directing students in learning. Technology benefits students in multiple ways. The mission of the Owen County Technology department is to provide the best possible electronic resources to our students and staff to enhance learning and increase student achievement.

We have looked at our needs and determined we have needs in the following areas: improved access to wireless in all classrooms, incorporate virtual learning lab within the high school, integrate Project Lead the Way, continue offering online course support through the network, support STLP throughout the district, continue digital citizenship training, continue current staff training and incorporate new technologies, continue replacement rate of devices, increase the number of student devices, and continue professional development.

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)?

N/A

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 37 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)*

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	Continue to Upgrade network switches and UPS.	Vendor Partner, DTC	ongoing	Erate KETS General Funds	\$60,000	Switches will be installed and configured creating less down time and fewer issues for end users.
AA-3	Replace out of date workstations and devices. This will ensure up-to-date hardware and software and provide a better experience for end users.	Technology Department	ongoing	KETS General Funds	\$35,000	All devices will be updated from Windows 7 to Windows 10. Devices that cannot be upgraded will be replaced.
AA-4	Implement limits to on-premise storage and move individual users to cloud services when necessary.	Technology Department	ongoing/yearly	N/A	N/A	Staff and students will be limited to a designated amount of storage on Owen County owned servers.
AI-1	Provide all students K-12 a chromebook	Technology Department	completed by August 2021	KETS Cares	\$180000	



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 schools 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-1	Two-step authentication	Technology Department	ongoing	N/A	N/A	Implementation that requires two authenticating factors for access within the network
AA-2	Update student AUP	Technology Department	completed by August 1, 2022	N/A	N/A	Board approval and school distribution in student handbook.
AA-3	Tell survey data	STC, School Administrators, TRT	Every two years	State Mandated	N/A	Use of data to improve technology access and resources.
AA-5	Start using Impero at the high school and implement it at the middle school.	Technology Department	ongoing	General Fund	\$10,000	Obtain documentation from staff on student usage.
AI-1	Annual confidentiality training, AUP training, FERPA training, along with permission limitations within data management systems. Review current policies and procedures regarding STAFF access and liability.	Director of Special Education, Director of Technology, Superintendent Designee	required annually	N/A	N/A	Safe Schools documentation IC user rights audit Updating policies and procedures on data security



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 schools 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-3	Complete all documents for E-Rate Funding and KETS funding.	Director of Technology Director of Finance	July 1, 2021 - June 30, 2022	USAC KETS	varies depending on availability of funds	Funding accepted and issued to district.
AI-1	Continue using vendor services for Network maintenance. Continue STLP employment for daily break fix. Maintain TRT and STC positions within the district and schools.	Director of Technology Vendor Partner	July 1, 2021-June 30, 2022	General Funds KETS	STC - stipend TRT position - set salary \$60,000	Reduce work orders and reduce overall technology issues. Save the district funding through usage of vendor services and STLP.
AI-2	Continue centralized printing and google classroom usage.	Director of Finance Director of Technology Technology Resource Trainer	ongoing	General Funds	set contract amount	Track print usage through software program. Discuss alternatives to hard copy print.



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	<p>'TECH Days" - these are set dates in which the entire school engages in a variety of tech events.</p> <p>'Amazing Tech Race' night event for parents and students.</p>	TRT DTC STLP STC Staff	ongoing	General Funds	\$1,500	Number of parents and students involved
AA-2	Continue STLP as an engineer program, as they serve as technicians for the district.	DTC TRT	ongoing	General Funds	\$40,000	Complete task in a timely manner and demonstrate this model to other districts.
AA-3	<p>Continue district wide STLP programs that involve the community and hold STLP events at the district level.</p> <p>Work with NKU to continue summer camps within the district.</p>	DTC TRT STLP coordinators	ongoing	N/A	N/A	<p>School board presentations and community presentations.</p> <p>Summer Camp Participation</p>



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

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	OCES and the usage of Moby Max which encompasses all content areas.	Classroom Instructors	ongoing	Local School level		Improve students overall abilities in content areas and see gains within reading and math.
AA-1	NWEA data used to determine educational gaps and RTI needs.	Classroom Instructors	ongoing	General Funds		Number of students needing RTI based on performance standards.
AA-2:	Continue STLP program and coordinators at all grade levels. Engaging more students to participate in a variety of STLP categories.	DTC TRT STLP Coordinators	ongoing	General Funds	Coordinator Stipends	Number of students participating.
AA-3	Implement a digital citizenship course, required for all incoming freshmen.	Classroom Instructor Guidance Counselor	19-20 school year to be continuous	N/A		Students completing and passing the digital citizenship course.
AA-4	Continue the usage of NWEA map grades K-8 Continue the usage of CERT grades 9-11.	Classroom Instructor Data Manager	ongoing	General Funds		Identification of students for RTI. Cert logins for remediation.
AA-5	IC Portal access for all students.	Director of District Wide Programs	ongoing	General Funds		Student access to grades.

		Counselor				
AI-1	Continue to add devices within the district. Evaluate software on an as needed basis.	Classroom Instructor Building Principal TRT DTC Director of Curriculum and Instruction	ongoing	General Funds KETS	\$15,000	Student and teacher access to devices and usage charts through google admin. Request submitted for software
AI-2	Offer certifications that are in accordance with technology standards.	Classroom Instructor STC DTC TRT Director of Curriculum and Instruction	ongoing			Students receive certification prior to leaving high school.



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	Professional development and training that follow state and district PD design will allow for classroom integration of technology for improving and enhancing student learning in all content areas	DTC TRT Director of Instruction and Curriculum	ongoing	KETS General Funds	Variable depending on offerings.	Walkthroughs, evaluations, and professional development sign ups.
AI-1	District will provide beginning level skills for technology related tasks.	DTC TRT STLP	ongoing	N/A	N/A	Agendas/Sign-ins Can show evidence that they can: - Sign into Google

						<ul style="list-style-type: none"> - Share a Document - Bookmark - Create a Google Classroom - Log into IC - Log into Gradecam - Log into clever - Log into email - log into printers - log into work orders
AI-1	STC job description updated.	DTC TRT	ongoing	N/A	N/A	New job descriptions and evaluations. This will clearly define roles
AI-1	The Technology Committee will meet monthly to determine needs and adjustments to offer PD.	Technology Committee	ongoing			Agenda and sign in sheets



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	PLTW implementation district wide.	Classroom Instructor	ongoing	General Funds		Student course enrollment at the high school level. Student involvement in TSA and Vex at all levels.
AI-1	Develop a student voice survey for data collection on usage of digital content.	DTC STC TRT	ongoing	N/A	N/A	Survey data.
AA-1	Google classroom for classwork and enrichment.	Classroom Instructor	ongoing	N/A	N/A	Classroom teachers will continue to use google classroom in a meaningful way.
AI-1	Makerspace usage and extension of classroom instruction.	Classroom Instructor	ongoing	General Funds	\$5,000	Measured by the usage of the space that has been allocated for activities.