

DISTRICT TECHNOLOGY PLAN

DISTRICT NAME Newport Ind. Schools

LOCATION Newport, KY

PLAN YEAR(S) 2019-2020



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Table of Contents

[Table of Contents](#)

[Planning Team](#)

[Previous Plan Evaluation](#)

[New Plan Preview](#)

[Student Voice](#)

[KETS Master Plan Areas of Emphasis](#)

[Robust Infrastructure & Ecosystem](#)

[Data Security, Safety & Privacy](#)

[Budget & Resources](#)

[Partnerships](#)

[Digital Curriculum, Instruction & Assessment](#)

[Personalized Professional Learning](#)

[Use of Space & Time](#)

Planning Team

District Staff [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, etc.]	
Rusty Adams	Annette Horton
Kelly Middleton	Brad Limle
Amy Gilkison	
Tete Turner	
Building Staff [Recommended to include principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
Matt Atkins	Debbie Roaden
Heather Orman	Thomas Petty
Dennis Maines	
April Walsh	
Additional District Contributors [Recommended to include board members, SBDM members, program directors, etc.]	
Students [Recommended to include middle and/or high school students]	
Other [parents/community members, business and nonprofit leaders, etc.]	

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? Goals of refreshing devices and providing more tech PD opportunities for teachers and staff were met, as were goals focused on maintaining or improving network performance.

Goals that were not met or didn't have the expected outcomes? Digital Citizenship initiatives did not noticeably reduce incidents of student abuse of the AUP.

Areas of improvement? Work focusing on digital citizenship activities needs to continue. Teachers can still use more assistance in developing lessons integrating technology.

Areas/goals that are no longer relevant? With interactive flat panel being installed in most classrooms, the goal of getting an Apple TV for casting purposes to each room is no longer relevant.

Needs that emerged after evaluation of the previous plan? A need to plan and provide for large-room online testing using our 1:1 devices via wifi emerged this year.

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?

Goals were developed while working with teams on CSIP plans, reviewing the district strategic plan, regular meetings with technology staff from each school, and from working with groups of teachers and administrators from each school centered on integrating technology into instruction to a greater degree.

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.

Infrastructure work will include replacing our core network switches, and modernizing battery backup/surge protection equipment in the data closets pending E-Rate approval. This will work to continue providing very high levels of network availability and overall performance. Also, all school libraries are slated for major redesign, with focus on incorporating Makerspace elements and collaborative spaces. This will improve student access and help them become more fluent with new technologies.

We will continue to work on providing professional development to the staff by holding a Google Level I training course for new staff, vendor or staff-led trainings on the existing interactive flat panels, and Infinite Campus, as well as sending staff to conventions such as KYSTE. This, along with the refocused PLC work at each school, will serve to increase integration of technology into curriculum and instruction.

Plans are also in place for an extensive maintenance of the JAMF MDM, Lightspeed, and testing federated ID's with Apple School Manager. These will all help us better manage and provision our 1:1 environment.

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)? Currently student input regarding their access to technology is gathered from a group of middle/high school students who meet monthly with the superintendent and other administrators.

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. Data from the students on which classes/subjects they felt integrated technology well and which ones they would like to see more more technology use in was used to supplement results of walkthrough/observation data and help guide changes to the PLC/Intentional Lesson Design processes at the schools.

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

Newport Ind. Schools

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)
AA1	<i>Upgrade network core switches to currently supported models.</i>	<i>CIO, Extreme, StepCG</i>	<i>completed by Aug 1, 2019</i>	<i>Erate KETS General Fund</i>	<i>\$36000</i>	<i>Network backbone at KEN rack and each school will be on new switches with a fresh 5-7 year replacement cycle.</i>
AA2	Improve management capabilities, ease of deployment for 1:1 devices by doing a thorough checkup/update of JAMF and ASM.	Tech Staff, JAMF, Apple	completed by Aug1, 2019	General Fund	\$15,000	JAMF will run on latest version, JDS will be removed. User assignment in JAMD and ASM will be improved, which will allow "zero-touch" deployment to students.
AA3	Continue to monitor and adjust wifi system. Add special SSID's for IOT and hosted meetings. Expand large-room testing wifi capability if needed.	Tech Staff, STEPCG	ongoing	General Fund	\$2000	IOT devices will connect properly. Guest wifi process for meetings will be streamlined while still prohibiting student personal devices from network.
AA4	Continue to promote use of O365 or G-Suite Team Drives, etc. for collaborative work	Tech Staff, District Administration	ongoing		NA	Agendas, shared resources, etc. for meetings will be accessed via O465 or G-Suite. Shared local network drives will be converted to cloud based.
AI1	Lightspeed relay/class pilot for Chromebooks/Macbooks to improve monitoring and authentication of non-iPad student devices.	Tech Staff, Lightspeed	September, 2019	General Fund	\$8000	Teachers will gain better ability to monitor student screens. Staff will have better reports on student internet use.
AI1	Improve carts at NHS for better charging/safer storage	Tech Staff, vendors	summer, 2019	General Fund	\$5000	Loss/damage will be reduced. Less real-estate will be consumed by bulky carts. Devices will be more reliably charged.

AI1	Continue refresh cycle, lease payments on 1:1 devices.	CIO, CFO	July 2019	General Fund	\$218,000	Planned payments will be made as scheduled. We are in the middle of the lease period and will begin discussions/planning for next refresh cycle next year.
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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)
AA2	Make use of security capabilities in Microsoft A3 Licensing to improve account security (conditional access, leaked credentials reports)	CIO, Technology Staff	ongoing	KETS/General Fund	\$15000	Can monitor Azure AD to see unauthorized login attempts from foreign countries and accounts flagged for unusual activity and take steps to recover/protect those accounts. Should see a reduction in work orders for “spam”.
AA5	Renew Emphasis with staff on Digital Citizenship and utilize iDriveDigital and content from CommonSense Media.	CIO, All Teachers and School Leaders.	August 2019, ongoing	NA	\$0	Completion reports from Digital Drivers License. Staff Lesson Plans.
AI1	Data Security presentations to board and all staff. (data, security, confidentiality, privacy). Access Review.	CIO, Principals, District Administration	summer 2019 (required annually)	NA	\$0	Opening Day - Sign-in records. Board minutes.



Budget & Resources

Future Ready Gear

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

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



AA-1: Continue to maximize local and state education technology expenditures through a system of shared/brokered/managed services



AA-2: Continue use of long-term planning strategies that allow for continuity of initiatives and systems (*ex. Accounting for cost of ownership over the lifespan of equipment so monies are allocated for repairs/upgrades*)



AA-3: Continue to leverage all available state and federal funding opportunities to address required basic cost of living increases, previous budget cuts of basic services, projected growth by districts (*e.g. Internet consumption*) while maximizing education technology programs and initiatives (*Technology Need, E-rate*)



AI-1: Make districts aware of position/roles requiring technology-related duties in support of technology and instruction (*The People side of K-12 EdTech*)



AI-2: Make districts aware of how to reduce expenditures on printing/print services (*both in consolidated contract pricing as well as shifting from paper to digital experiences*)



AI-3: Evaluate the need and explore new contracts that drive costs down for statewide summative online assessment, learning management systems, printing services and interim based assessments



AI-4: See an increased percentage of districts examining which education technology investments are or are not being maximized

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA2	Continue planning for future fresh cycles of 1:1 devices	CIO, Superintendent, CFO	Spring 2020			Long-term plan for next refresh cycle will be formalized.
AI2	Continue working with school admins to budget for reduced copying volume	CIO, Principals	ongoing			PaperCut reports of printing volume as compared to historical data.

	through use of online experience. Maintain our centralized printing model.					
AI4	Review expenditures for overlapping functionality, “bang for the buck”. Look to retrain or sunset programs/platforms that are not being optimized.	CIO	ongoing			Walkthrough/Observation data. Usage reports.



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

DISTRICT TECHNOLOGY PLAN

Newport Ind. Schools

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	Support school admin teams in communication efforts with parents and community through use of videos (Adobe Spark), social media, platforms, and SchoolMessenger service.	CIO, Tech Dept., school principals	ongoing			Increase in feedback/response from community members.
AA1	Communicate with dual credit providers (Gateway), CTE programs to help make sure our students have access to technology they need to be successful in those programs.	CIO, high school admin, CTE coordinator	ongoing			Increase participation and student success in dual credit opportunities. IC data.



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	Digital content providers for 19-20 include Lexia, Dreambox, Reading Plus, Read180, System 44, ST Math, IXL, Flocabulary, Pearson/Wonders, Edgenuity, PLTW.	CIO, Tech Staff, Curriculum Dept.	19-20 School Year	Title, General Fund, Instructional Funds		Data gathered from PLC's, walkthroughs, and assessments such as NWEA/MAP data will be used to measure success.
AA-2	Continue STLP programs at all school with each school submitting a project to regional showcase with goal of reaching state. Feature them at a spring board meeting.	CIO, STLP coordinator.	19-20 school year			Participation rosters. Results of showcases.
AA-2	Continue to expand and remodel MakerSpace areas/library spaces.	CIO, Facilities, Media Specialists	summer 2019	Literacy Grant	\$40,000	Spaces will be transformed with better access to collaborative space and Makerspace materials.
AA-4	Continue to support NWEA as a district assessment tool.	Tech Dept./ Curriculum Dept.	19-20 school year			Students will be tested within designated windows and date available for teachers to use in PLC to drive instruction and intervention work.


AA-5	Maintain projector/interactive flat panel/dense Wi-Fi access to all classrooms.	Tech Dept.	ongoing			SchoolDude tickets will be used to identify any areas that need to be addressed.



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 lead by example with adoption of digital tools for use in meetings and PD work. District will plan Google Level I session for new teachers to put them on equal footing with returning staff, who have all had training.	CIO, Superintendent, All administrators	ongoing	general fund	TBD	Completion of Google Level I certifications.
AA-1	Continue to send teachers and staff to quality conferences (KySTE, FETC, ISTE, etc.) when possible in order to expose them to new digital tools and bring that knowledge back to adopt in our schools.	CIO, curriculum dept.	19-20 school year	KETS, general fund, PD funds	TBD	Reports/demonstrations from conferences by attendees at faculty meetings or PLC's.

AA-1	New Teacher Tech Talk to issue devices, and a "Quick Start" for school tech access and processes.	CIO	August 2019			Sign-in sheets from New Teacher Institute and device responsibility forms will show that new faculty have been reached.
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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)
AI-1	Continue supporting and modelling Google Classroom and Apple	CIO, STC's	ongoing			Review Walkthrough/Observation data with administrators. Use of technology in this manner should

	Classroom/Schoolwork to staff for digital learning.					be pervasive.