

TECHNOLOGY PLAN

ROWAN COUNTY
Board of Education



<http://www.education.ky.gov>

2019-2020

Executive Summary

The plan is comprised of four fundamental goals: Technology vision & goals, student technology literacy, professional development, and integration of technology into curricula and instruction. The district will provide students and staff with a stable and reliable network infrastructure to ensure equal opportunities for higher-level learning; provide adequate communication tools for all stakeholders in the classroom and beyond; and to provide resources for successful integration of technology into instruction. The district will provide a safe, secure high-speed network to include wireless access, providing students and staff with greater opportunities for learning. The district, in partnership with other stakeholders, will provide funding sources, appropriate technical staffing, and professional development to ensure student success. The district will provide multiple avenues of communication including phone, Internet, web hosting, etc. Professional development and other resources will be provided for all stakeholders to ensure safe, successful integration of technology.

Acknowledgments

The Rowan County Technology Committee is comprised of the District Technology Coordinator, School Technology Coordinators and District Finance Officer. This group meets and reviews the direction and course of technology initiatives. They make recommendations and decisions based upon input from staff, students and community members. It is the goal that all students can achieve at high levels.

District Staff

Andrew Conyers, District Technology Coordinator

Glen Teager, Finance Officer

Mike Thornsberry, School Technician

Vera Gregory, School Technician

Tenessa Allen, School Technician

School Technology Coordinators

Tina Northcutt, RCMS

Cindy Johnson, RES / CES

Jami Kiser, MES

School Library Media Specialists

Tina Northcutt, RCMS

Cindy Johnson, CES / THES

Jamie Kiser, MES

District Teacher Representatives

Ganan Fannin, Elementary Teacher Rep

Pam Rowland, Secondary Teacher Rep

Planning Process / Methodology

Stakeholders attend conferences, technology team meetings, STC/District technology meetings, and regional DTC meetings to ensure implementation of the technology plan. Stakeholders review technology issues including the items listed below.

- hardware
- software
- phone
- fiber
- classroom use
- Lightspeed reports
- goals, strategies, and next steps
- professional development (including Internet safety)
- purchasing
- setup
- maintenance
- technology integration
- Ketsview monitoring

Technology Vision and Goals

Goal 1

To provide students and staff with a stable and reliable network infrastructure to ensure equal opportunities for higher-level learning.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
The District will provide wireless access for all teachers and students.	The wireless LAN will provide more opportunity for access throughout the buildings.	Wireless access logs District configuration maps	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS/ USF
The District will upgrade network infrastructure to ensure a safe, secure, and reliable network.	Network speed will increase, providing improved access to network resources.	Technology Activity Report Technology Readiness Survey	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS/ USF
The District will provide eligible servers (terminal and proxy) in a switched environment.	Enhance security and Improve monitoring capabilities of faculty, staff, and students.	MUNIS records District configuration map Fixed asset reports	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS/ USF
The District will negotiate contracts with approved vendors via the bidding process for installation, basic maintenance, and configuration of network infrastructure.	The network will remain safe, secure, reliable, and accessible to all stakeholders.	ERATE forms 470, 471, 486	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS/ USF
The District will maintain workstation and server licensing.	All stakeholders will have access to real-world applications	Configuration logs	July 1, 2019 – Sept. 30, 2020	District Technology Coordinator	KETS/ USF

Goal 2

Provide adequate communication tools for all stakeholders in the classroom and beyond.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
The District will provide eligible school personnel with mobile communication devices such as hand held radios	These devices will provide an additional method of communication to ensure a safe and effective instructional environment.	Technology and Safe school plan	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF/safe schools
The District will provide local and long-distance telephone access to all classrooms.	Improved communication between all stakeholders and a safer school environment.	Phone records	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF
The District will work with KDE to maintain a high-speed connection from COT to LEA. (KEN Project).	Improved and increased access to the Internet and other network resources.	KDE Technology Plan	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF
The District will provide a high-speed internet connection to all eligible facilities.	Improved and increased access to the Internet and other network resources for all stakeholders.	Service provider contract agreements	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF
The district will provide web hosting services for all stakeholders.	Communication will be improved among all stakeholders via district web pages.	District web page	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF

Goal 3

Provide resources and support for formative assessment initiatives to enhance student achievement.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
MAP Assessment will be administered at the elementary schools three times per year to provide formative assessment data	Students will receive instruction tailored to their academic needs.	All students will exhibit growth as indicated by the MAP RIT scores.	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF
The district will maintain a high speed network to ensure reliable access to computer-based formative assessment programs.	Students will receive instruction tailored to their academic needs.	All students will exhibit growth as indicated by the MAP RIT scores	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF
District will utilize data to improve instructional practices to meet the needs of all students.	Students will receive instruction tailored to their academic needs.	All students will exhibit growth as indicated by increased academic achievement.	July 1, 2019- September 30, 2020		

Goal 4

All schools, as well as the district, will have fully functioning leadership teams who collaboratively plan, implement, monitor, and evaluate school practices that focus on improved academic achievement and technology literacy.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
School and district leadership teams will meet regularly to monitor progress.	Student achievement will increase.	Sign-in sheets & agendas	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF
The district will provide increased and improved access to technology, including content-specific resources.	Barriers to academic achievement will be removed.	Purchasing records Learning Walks PD records	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF

Student Technology Literacy Skills

Goal 1

All students will become technology literate by the end of 8th grade as per the Program of Studies and Kentucky Core Academic Standards.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Technology skills will be embedded into curriculum and instruction in all content areas at all grade levels.	Students will become technology literate.	Curriculum documents Lesson plans Walkthrough data	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF
Technology skills for students will be evaluated at the 8 th and 12 th grade levels.	Curriculum and instruction will be modified in response to any technology literacy gaps.	Student assessments Infinite Campus records	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF
All schools will participate in the Student Technology Leadership Program to enhance student technology literacy skills.	Students will enhance their technology and leadership skills.	School schedules Local, regional & state showcase programs	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF

Goal 2

All students will exhibit career and/or college readiness skills by the end of the 12th grade.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Computer-based ACT preparation programs will be utilized to identify and address college readiness deficiencies.	Students will exhibit increased ACT scores.	State ACT reports	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF General Fund
The Individual Learning Plan (ILP) program will be utilized to promote college and career readiness.	Students will be more successful in transitioning to career or college placement after graduation.	District ILP completion reports	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF General Fund
Students will get industry certified with Microsoft Office Specialist Certification	Students will be able to take courses and achieve MOS Certification	TEDS report	July 1, 2019- September 30 2020	District Technology Coordinator/CTE Staff	KETS/USF

Integration of Technology into Curricula and Instruction

Goal 1

To provide resources for successful integration of technology into instruction.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
21 st Century technology tools will be provided and maintained to improve instruction.	Instructional practices will improve, resulting in increased student achievement.	Inventory logs Walkthrough data Lesson plans Maintenance logs	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF
Teachers will integrate technology tools to differentiate instruction and address multiple learning styles.	Student achievement will increase.	Lesson plans Walkthrough data	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF

Goal 2

The district will utilize the Technology Integration Specialist to model and promote 21st century teaching strategies to improve student academic achievement.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
The DTC will assist teachers with technology resources for successful integration.	Varied instructional resources and strategies will result in increased student achievement.	PD Plans	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF
The DTC will assist teachers with technology-related goals related per their Individual Growth Plans.	Teacher proficiency in technology standards will improve.	Teacher growth plans and evaluations	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF

Staff Training/ Professional Development Goals

Goal 1

Appropriate professional development opportunities will be provided to allow all teachers and administrators to meet technology standards.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
The district will provide research-based, ongoing, job-embedded technology professional development to include content-specific training for teachers.	More effective use of technology by staff will lead to increased learning opportunities and acquisition of knowledge.	Walkthrough data Lesson plans Student projects & performances	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF General Fund Title IID
Teachers and technology staff members will attend technology conferences and meetings as needed to enhance technology skills.	More effective use of technology by staff will lead to increased learning opportunities and acquisition of knowledge.	PD records EILA records	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF General Fund Title IID
Internet Safety professional development will be provided for all stakeholders.	Students and staff will practice safe and ethical habits when utilizing Internet resources	Sign-in sheets & agendas Lesson plans	July 1, 2019 – September 30, 2020	District Technology Coordinator	KETS / USF General Fund Title IID

Current Technology and Resources

- **3-1 student to computer ratio. Goal is to work toward one-to-one ratio.**
- **(STC) school technology coordinators provide staff training, basic workstation repairs, software and printer installations.**
- **(STLP) student technology leadership program provides on-site assistance and training for school and district staff.**
- **(CIO/DTC) monitors and maintains network functions. Provides professional development for all stakeholders. Monitors for effective use of technologies, follows CIPA guidelines**
- **(Technicians) local technicians perform workstation repairs, KEDC contracted engineers perform wiring, eligible server repairs, etc.**
- **(Multi-media) *goal is to make all classrooms state of the art with classroom multimedia systems including projectors, Smartboards, document cameras, workstations, etc.***

Maintenance and upgrade of network devices

- **Workstations**
- **The District will continue support for our 1200 Chrome Book lease**
- **Servers**
- **Switches**
- **Multimedia units, etc.**
- **Begin transition from projectors/Smart boards to display panels as prices come down**

Maintain technology

- **Onsite IT**
- **Contract through regional coop for eligible equipment and maintenance**
- **Replacement cycle**

Train staff

- **Tech conferences**
- **Regional trainings**
- **Microsoft trainings**
- **Specialty trainings...ILP, Text reader, Voice recognition, I-Safe, etc.**

Evaluation

District will monitor network infrastructure, communication and integration of technology for all stakeholders as evidenced by computer logs, proxy logs, lesson plans, walk-through data, student work and projects, and certified evaluations, along with help/repair requests and surveys. Teachers will be evaluated annually to determine technology proficiency relative to Standard 10. When proficiency is not demonstrated, technology will be incorporated into the Individual Growth Plan with guidance from school & district administration. District will provide ongoing training and assessment as needed. The district will semi-annually review the replacement cycle of network services. District traffic graphs will be monitored weekly to determine if adequate connectivity is available. Communication logs will be monitored in conjunction with district walkthroughs a minimum of two times per year. Phone, internet, email, and web services will be monitored daily to ensure adequate access to communication.

Technology Vision and Goals Evaluation Narrative

Lesson plans and walkthrough observations will be conducted at the school level and utilize tablet devices and software. This data will be provided to school and district administrative staff. District tech staff will be monitored and evaluated via routine meetings and checks of the maintenance and inventory logs. This data will be reported to district technology administrative staff.

Student Technology Literacy Skills Evaluation Narrative

Students' technology skills will be evaluated using classroom assessments, ILP completion reports, walkthroughs, and lesson plans. Students not meeting technology literacy standards will be provided remediation services to ensure success.

Integration of Technology into Curricula and Instruction Evaluation Narrative

District tech staff will be monitored and evaluated via routine meetings and checks of the maintenance and inventory logs. This data will be reported to district technology administrative staff. Lesson plans and walkthrough observations will be conducted at the school level and any staff members not meeting expectations will revise their growth plans in consultation with their supervising administrator. This data will be provided to school and district administrative staff. Those who continue to not meet expectations will be placed under corrective action.

Staff Training/Professional Development Evaluation Narrative

Professional development needs assessment surveys will be conducted annually to determine professional development plans. Evaluations of professional development sessions are conducted at the end of each session, with the data being reported to the district PD coordinator. Walkthrough and lesson plan evaluation data will be reported to the district administrators. Staff members not meeting expectations after appropriate professional development opportunities will be asked to revise their growth plans under direction of their supervisors.

Budget

Rowan County's annual budget for technology is approximately \$150,000. We receive approximately \$75,000 per year from the Kentucky Department of Education in KETS funds earmarked specifically for technology. Local matching funds add another \$75,000.

Rowan County also fully participates in the federally sponsored Universal Service Fund reimbursement program through USAC, Schools & Libraries division. This allows us to recoup 80% of all eligible telecommunications costs for the district.

School Year: 2019 -2020