# EDUCATIONAL TECHNOLOGY PLAN FOR 2018-2023

## Enhance Personalized, Equitable Student Learning Experiences with Technology

| Goal 1: Promote and support student personalized, deeper learning experiences to demonstrate workplace readiness by creatively solving complex problems, thinking critically, collaborating, communicating, and demonstrating responsible citizenship. | |
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| **Desired result(s) for THIS goal:**<br>● Students will develop the 5 C's (critical thinking, creative thinking, communication, collaboration, and citizenship) associated with the Profile of Virginia Graduate using various online resources.<br>● Students will apply technology effectively to support the construction and application of content knowledge and skills.<br>● Students will demonstrate mastery in a variety of ways, including the use of technology through the creation of digital artifacts.<br>● All students will have access to career and college opportunities including those in the technical fields through advanced coursework, mentorships, and internships. | **How will the division measure the result(s)?**<br>● Monitor student performance and collect trend data<br>● Conduct formal and/or informal yearly surveys<br>● Student Digital Portfolios<br>● Student academic and profile records |

| ACTIVITIES TO SUPPORT THIS GOAL | | | |
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| **ACTIVITIES**<br>**(2 or more, continuing or new)** | **DATE OF ACTIVITY** | **WHAT NEEDS TO BE DONE FOR EACH ACTIVITY & WHEN?** | **PERSONS IN CHARGE AND HELPING** |
| Expand online resources for students/staff to enhance academic and personal growth. | On-going | Provide access and professional development training for following:<br>● Go-Open Virginia K-12<br>● Career Cruising 7-12<br>● Virtual Job Shadow K-12<br>● Suite 360 6-12 | Division:<br>Superintendent<br>Director of Academics<br>Supervisor of Technology<br>Supervisor of Career and Technical Education<br><br>School:<br>School Administrators |

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| Expand career internship/job shadowing programs to enhance student opportunities to develop technology employability skills needed in the 21st century workforce. | On-going | Develop partnerships with the local chamber of commerce and employers to increase internships/Job Shadowing opportunities for students. | Superintendent<br>Supervisor of Career and Technical Education<br>School Administrators |
| Expand dual enrollment opportunities for students in technology fields. | On-going | Develop partnerships with local colleges and universities to expand dual enrollment opportunities for students in technology fields. | Division:<br>Superintendent<br>Director of Academics<br>Supervisor of Technology<br>Supervisor of Career and Technical Education<br><br>School:<br>School Administrators |
| Increase opportunities for technology based extracurricular programs. | On-Going | Recruit businesses to sponsor extracurricular activities emphasising technology. | Director of Academics<br>Supervisor of Technology<br>Supervisor of Career and Technical Education<br><br>School:<br>School Administrators and Teachers |
| Increase opportunities for students to access technology stations during instructional Guided Grouping times. | On-Going | ● Purchase of hardware to provide a platform.<br>● Purchase software programs that support instructional objectives.<br>● Train teachers in management of programs.<br>● Train teachers in effective implementation of this instructional strategy. | Director of Academics<br>Supervisor of Technology<br>Supervisor of Career and Technical Education<br><br>School:<br>School Administrators and Teachers |

# Support Innovative Professional Learning with Technology

**Goal 2**: Promote and support current and emerging technology-based resources that support educators in developing and employing innovative strategies and practices to support student-centric learning models to increase quality of education and equity for students.

| Desired result(s) for THIS goal: | How will the division measure the result(s)? |
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| <ul><li>Educators support personalized, deeper learning experiences that are enhanced through appropriate and meaningful technology integration.</li><li>Through the use of technology supports (e.g., learning and/or content management systems, student information systems, adaptive technologies) educators will monitor students' progress to personalize learning and inform instructional practices.</li><li>Educators utilize the instructional technology resource teacher (PDF) model to support student engagement through technology in the classroom.</li><li>Educators understand how to enhance performance-based and alternative assessments through the intentional integration of technology.</li></ul> | <ul><li>Monitor student performance and collect trend data</li><li>Monitor Teacher implementation of technology</li><li>Conduct formal and/or informal yearly surveys</li></ul> |

| ACTIVITIES TO SUPPORT THIS GOAL | | | |
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| **ACTIVITIES** <br> **(2 or more, continuing or new)** | **DATE OF ACTIVITY** | **WHAT NEEDS TO BE DONE FOR EACH ACTIVITY & WHEN?** | **PERSONS IN CHARGE AND HELPING** |
| Educators continually improve their practice by learning from and with others and exploring proven and promising practices that leverage technology to improve student learning. | On-going | <ul><li>Set professional learning goals to allow technology instructional strategies to be utilized.</li><li>Pursue professional interests by creating and actively participating in local and global learning networks.</li><li>Stay current on research with the support of ITRTs which improve student learning outcomes.</li></ul> | Division: <br> Division Administration <br><br> School: <br> School Administrators <br> ITRT <br> Teachers |

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| ITRTs will provide professional development to demonstrate how educators may seek out ways to support student empowerment and success and to improve teaching and learning. | On-going | <ul><li>Shape, advance and accelerate a shared vision for empowered learning with technology by engaging with education stakeholders.</li><li>Advocate for equitable access to educational technology, digital content, and learning opportunities to meet the diverse needs of all students.</li><li>ITRTs model for colleagues the thoughtful applications and best practices of new digital resources and tools for learning.</li></ul> | Division:<br>Division Administration<br><br>School:<br>School Administrators<br>ITRT<br>Teachers |
| Educators inspire students to positively contribute to and responsibly participate in the digital world. | On-going | <ul><li>Create experiences for learners to make positive, socially responsible contributions, and exhibit empathetic behavior online that build relationships and community.</li><li>Establish a learning culture that promotes curiosity and critical examination of online resources and fosters digital literacy and media fluency.</li><li>Mentor students in safe, legal, and ethical practices with digital tools and the protection of intellectual rights and property.</li><li>Model and promote management of personal data, digital identity, and protect student data privacy.</li></ul> | Division:<br>Division Administration<br><br>School:<br>School Administrators<br>ITRT<br>Teachers |
| Educators dedicate time to collaborate with both colleagues and students to improve practice, discover and share resources and ideas, and solve problems. | On-going | <ul><li>Dedicate planning time to collaborate with colleagues to create authentic learning experiences that leverage technology.</li><li>Collaborate and co-learn with students to discover and use new digital resources and diagnose and</li></ul> | Division:<br>Division Administration<br><br>School:<br>School Administrators<br>ITRT |

| | | | troubleshoot technology issues.<br>● Use collaborative tools to expand students' authentic, real-world learning experiences by engaging virtually with experts, teams and students, locally and globally.<br>● Demonstrate cultural competency when communicating with students, parents, colleagues, and interact with them as co-collaborators in student learning. | Teachers |
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| Educators design authentic, learner-driven activities and environments that recognize and accommodate learner variability | On-going | | ● Use technology to create, adapt and personalize learning experiences that foster independent learning and accommodate learner differences and needs.<br>● Design authentic learning activities that align with content area standards and use digital tools and resources to maximize active, deep learning.<br>● Explore and apply instructional design principles to create innovative digital learning environments that engage and support learning. | Division:<br>Division Administration<br><br>School:<br>School Administrators<br>ITRT<br>Teachers |
| Educators facilitate learning with technology to support student achievement of the ISTE Standards for Students. | On-going | | ● Foster a culture where students take ownership of their learning goals and outcomes in both independent and group settings.<br>● Manage the use of technology and student learning strategies in digital platforms, virtual environments, hands-on makerspaces or in the field.<br>● Create learning opportunities that challenge students to use a design process and computational thinking to innovate and solve problems. | Division:<br>Division Administration<br><br>School:<br>School Administrators<br>ITRT<br>Teachers |

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| | | ● Model and nurture creativity and creative expression to communicate ideas, knowledge or connections. | |
| Educators understand and use data to drive their instruction and support students in achieving their learning goals. | On-going | ● Provide alternative ways for students to demonstrate competency and reflect on their learning using technology.<br>● Use technology to design and implement a variety of formative and summative assessments that accommodate learner needs, provide timely feedback to students, and inform instruction.<br>● Use assessment data to guide progress and communicate with students, parents, and education stakeholders to build student self-direction. | Division:<br>Division Administration<br><br>School:<br>School Administrators<br>ITRT<br>Teachers |

# Create Cultures of Change through Innovative Leadership Practices

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| **Goal 3**: Promote leadership that supports deeper learning experiences for students and innovative instructional practices by educators through the use of technology. | |

| **Desired result(s) for THIS goal:** | **How will the division measure the result(s)?** |
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| <ul><li>Educational Leaders provide a vision for comprehensive integration of technology that supports teaching and learning.</li><li>Educational Leaders allocate time, resources, and access to ensure professional growth in technology fluency and integration among all stakeholders.</li><li>Educational Leaders promote an environment of professional learning and innovation that empowers educators to enhance student learning through up-to-date technologies and digital resources.</li><li>Educational Leaders promote and model effective communication and collaboration among stakeholders using digital-age tools.</li><li>Educational Leaders model and facilitate understanding of social, ethical, and legal issues and responsibilities related to an evolving digital culture.</li></ul> | <ul><li>Monitor the alignment between this Technology Plan and the ACPS Six-Year Strategic Plan.</li><li>Document professional learning opportunities provided to stakeholder groups (i.e. students, teachers, classified employees, parents, administrators, board members, etc.).</li><li>Results of the annual technology survey given to students, educators, and parents.</li><li>Documentation of resources, both software and hardware, purchased for the support of technology integration.</li><li>List of Board policies and regulations reviewed annually to support requirements under the VA Code and Standards of Accreditation.</li></ul> |

| ACTIVITIES TO SUPPORT THIS GOAL | | | |
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| **ACTIVITIES**<br>**(2 or more, continuing or new)** | **DATE OF ACTIVITY** | **WHAT NEEDS TO BE DONE FOR EACH ACTIVITY & WHEN?** | **PERSONS IN CHARGE AND HELPING** |
| During the update of the 2021 Strategic Plan the Board will review the vision and mission in Amherst County Public Schools k-12 in order to embed goals that support teaching and learning through the integration of technology. | February 2019 through June 2021 | Current policies that impact the use of technology within the educational setting shall be reviewed and updated by the Board. I.e: Bring Your Own Device, Cell-phone usage, etc. | Division:<br>Superintendent<br>Director of Academics and Supervisor of Technology |
| Develop a Technology Professional Development Platform that allows all employees to take advantage of increasing their skills with new | Initial Set-up July 2019 then added to as needed | <ul><li>Establish a Technology PD Committee that will review all current opportunities and establish a core group of modules to offer to all</li></ul> | Division:<br>Director of Academics<br>Director of Human Resource<br>Supervisor of Technology |

| | | employees.<br>● Protect an area on a division server to house all of the PD modules. | Committee Members |
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| Evaluate the current level of instructional technology used in Amherst County Public Schools. | August 2019 | Create an employee survey requesting information on the use of technology in their area of support (i.e teacher, administrator, support personnel, etc.). | Division:<br>Supervisor of Technology<br>ITRT |
| Develop training in order to foster the use of current technology. | Begin August 2019 | Based on information from the Technology Committee create PD Modules, as well as a mechanism to provide certification of completion. | Division:<br>ITRT |
| Develop digital learning communities that empowers educators to enhance student learning through the most recent technologies and digital resources. | Begin August 2019 | Instructional staff will work with school administrators to open up the dialog for all teachers to collaborate with one another using a digital format. | Division:<br>Division School Liaisons |
| Promote and model effective communication and collaboration among all employees and the community by using digital-age tools. | Begin immediately | Division and school administrative staff will utilize social media to communicate information regarding Amherst County Public Schools. Division and school administrative staff will collaborate with the Amherst community to foster support for all students via the use of digital tools (i.e. social media, email, webpage, etc.). | Division:<br>Senior Staff Members<br>Supervisors<br><br>School:<br>Administrators<br>Teachers |
| Review procedures used by Amherst Educational Leaders in using digital-age tools. | August 2019 | Technology Committee will write and issue a survey to division and school leaders regarding their use of technology to support educational endeavors throughout the Amherst community. | Division:<br>Director of Academics<br>Supervisor of Technology<br>ITRT |
| Use technology to record and compile professional learning opportunities for all students. | Begin August 2019 | Develop platform whereby all professional development provided in the school division may be accessed via digital database. | Division:<br>ITRT<br>Senior Staff Members<br>Supervisors<br><br>School:<br>Administrators |

# Secure and Robust Infrastructure

**Goal 4**: Promote and support a secure and robust technology infrastructure to support access, adequacy, and equity.

| Desired result(s) for THIS goal: | How will the division measure the result(s)? |
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| ● Students, educators, and leaders have fair and impartial access to secure and robust networks that provide reliable access to the Internet and other networks. <br> ● Students, educators, and leaders use best practices that comply with federal, state, and industry guidelines and recommendations to minimize network threats, vulnerabilities, and protect educational data. <br> ● Students, educators, and leaders have fair and impartial access to computing devices and other supportive technologies, including assistive technologies. <br> ● Leaders have access to technical and human resources that enable the effective evaluation of infrastructure costs and other considerations necessary for reliable access to the Internet and other networks. | ● Monitor Internet, school-to-school connections, and other tools regularly to determine if sufficient bandwidth is available and the networks are healthy. <br> ● Comply with federal and state regulations (i.e. FERPA and COPA). Keep layers of security in place and software up-to-date. <br> ● Review yearly audits to ensure equity of devices in students' hands. Not just some students, but all students. <br> ● Review purchases and contracts after the fact to evaluate if the infrastructure costs were in the best interest of Amherst County Public Schools. |

| ACTIVITIES TO SUPPORT THIS GOAL | | | |
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| Monitor available reports for bandwidth utilization from internal equipment and our Internet Service Provider. | On-going | Report findings to Superintendent and other stakeholders as soon as an issue is discovered. | Division: <br> Superintendent <br> Supervisor of Technology |
| Conduct Security Training with new hires provided by the Supervisor of Technology. | On-going | Explain why cyber criminals are after us and what we can do to stop them. Currently, this training is conducted during new hire week. | Division: <br> Superintendent <br> Supervisor of Technology |
| Conduct yearly audits to ensure equity of devices in students' | On-going | Work with Director of Instruction to determine if all students have access to | Division: <br> Director of Instruction |

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| hands. Not just some students, but all students. | | devices. This is conducted in early summer. | Supervisor of Technology |
| Leaders continually improve their practice by learning from and with others to understand and comply with federal, state, and industry guidelines to protect our network. Keep relationships in place such as local staff in purchasing, fellow tech directors, VDOE contacts, VITA contracts, the EducationSuperHighway, and others. | On-going | Pursue professional interests by creating and actively participating in local and global learning networks. | Division: Superintendent Supervisor of Technology |