

Smithfield Technology Plan Addendum for 2017-2018

Introduction

In the past three years, the Smithfield Public Schools entered into a number of major educational technology initiatives; opening staff and student BYOD access to the school wireless networks, providing all students from grades 3 to 12 with Google Apps for Education accounts, a 3-year 1:1 Chromebook Initiative for students in grade 3 through 11 and the teachers that work with them, and making a transition to online and digital resources, where appropriate.

The district will be supporting and expanding all of these initiatives into the 2017-18 school year, including refreshing approximately 650 Chromebooks of the 1,950 Chromebooks that were deployed from 2014-15 to 2016-17. This will require continuing professional development and resources for students and staff around effective technology use for teaching and learning. The district will also work to provide students with more opportunities to demonstrate their proficiency of key curricular concepts by creating their own work with technology, specifically by utilizing video and audio content.

Lastly, the district will continue to improve and modernize the network infrastructure in our schools to ensure that all teaching and learning spaces have adequate access to both wired and wireless network access. In 2017-18, the district will be focusing on upgrading the physical wiring and network switching at Anne McCabe School and Old County Road School to latest structured cabling standards, both copper and fiber optic (where appropriate). Network distribution frames will be installed in locations within each school that have adequate ventilation and power to support proper and efficient operation.

Mission and Vision

The mission of the Smithfield Public Schools is to provide an adaptive and challenging learning environment that meets the needs of students in an emerging global community, and prepares them for excellence in education and the workplace, while cultivating integrity, responsibility, digital citizenship and a sustained passion for continued learning.

Success in a 21st century classroom requires the use and integration of a variety of technology tools by both students and staff. Students are expected to use technology to create and publish their work, as well as collaborate and communicate with others. In order for this to occur, it is the responsibility of the Smithfield Public Schools to provide students with tools that facilitate learning anywhere and anytime and ensure equitable access for all students. All educational technology initiatives must be “driven by instruction and powered by technology.” Providing students with Google Apps for Education accounts and a Chromebook to use at school and home is an initiative that is will move the district toward this vision for the 21st century classroom.

Goals

To make certain that Smithfield students are prepared for success in school, post-secondary education, career, and life in a globally connected society, it is crucial that the goals of the district's Google Apps for Education and 1:1 Chromebook initiatives are consistent with state and national standards, such as the 2016 ISTE Standards for Students, Next Generation Science Standards, and the Common Core State Standards. Furthermore, it is important that the goals of these initiatives are connected to the Smithfield Public Schools Strategic Plan.

As part of the Google Apps for Education and 1:1 Chromebook initiatives, students will:

- Participate in a variety of opportunities to demonstrate the relevance and interconnectedness of their knowledge and skills.
- Use technology tools to communicate, collaborate, create and publish their work.
- Engage in increasingly personalized and student-centered learning environments.
- Demonstrate and model the attitudes and attributes of a responsible digital and global citizen.

Conditions for Success

- Adequate internal network bandwidth, both wireless and wired
 - At least 802.11n capable wireless access points; 802.11ac capable wireless access points in any new installations
 - At least 1Gbps LAN wired connections
 - At least 10Gbps fiber LAN backbone connections
- Adequate bandwidth of transport lines/wide area network connections
 - At least 500Mbps transport connections or fiber optic WAN connections; 1Gbps preferred
- Adequate internet bandwidth
 - At least 500Mbps of aggregate internet bandwidth for the district; 750Mbps to 1Gbps preferred
- Flexible and regular professional development for teachers and staff
 - Small, frequent training and support sessions using Common Planning Time
 - Training during faculty meetings to supplement limited Common Planning Time at the elementary schools
 - Teachers inviting other teachers into their classrooms to observe/co-teach
 - Online clearinghouse of resources and support materials
 - Online collaborative Communities (e.g. Google Classroom, Twitter)
 - Differentiated learning opportunities for staff in small group settings (e.g. Office Hours)
- Reliable and dependable tools for the use of students and staff
 - Google Classroom
- Clear and consistent policies and procedures
 - Student Data Privacy and Security Policy

- Acceptable Use Policy
- Web filtering Policy

Evaluation of Success

- Highlighting projects and work that students have produced using technology tools and applications.
- Some short surveys of students and staff at strategic parts of the school year to find out about changes in engagement and classroom activities.