

Alleghany County Public Schools Technology Plan 2018-2023

P.O. Drawer 140 100 Central Circle Low Moor, VA 24457 540-863-1800 Fax: 540-863-1804

http://www.alleghany.k12.va.us

1

Page intentionally left blank.

Table of Contents

Committee Members	4
Executive Summary	5
Mission	7
One-to-One Initiative	7
Working as a Team	8
Connections to the Division's Mission	8
Evaluation Process and Planned Update Cycle	0
Conclusions from Needs Assessment 1	1
Goals1	5
Appendix 1 (Chromebook Information)	2
Appendix 2 (One-to-One Budget)	3
Appendix 3 (Technology Department Budget)	4
Appendix 4 (VPSA Balances)	5
Appendix 5 (Digital Literacy Skills Needed for Academic Success)	6
Appendix 6 (EasyTech Online Safety Curriculum)	7
Appendix 7 (General Internet Safety Curriculum)	3
Appendix 8 (2017 Needs Assessment Results)	4

Committee Members

Jeff Alleman	Director of Technology
Mary Jane Mutispaugh	Director of Instruction
Lucas Conner	Alleghany High School
Nick Moga	Community
Jan Hobbs	Director of Assessment and Accountability
Elizabeth Thompson	Callaghan Elementary School
Cindy Fox	TTRT; Clifton Middle School
Daphne Livesay	Alleghany High School
Josh Craft	Principal, Callaghan Elementary School
Adrienne Young	TTRT; Alleghany High School
Karen Staunton	Assistant Principal, Alleghany High School
Teresa Reed	Alleghany High School
Madison Lucas	TTRT; Mountain View Elementary School
Sarah Rowe	Principal, Clifton Middle School
Dwayne Ross	Principal, Alleghany High School
Sherman Callahan	Principal, Sharon Elementary School
April Easton	Principal, Mountain View Elementary School
Christina Linsin	Alleghany High School
Bob Donnan	Community
Joshua Rucker	Community
Lisa Fisher-Janosz	TTRT; Sharon Elementary School
Angela Nicely	TTRT; Callaghan Elementary School

Executive Summary

The Alleghany County Public Schools Technology Plan 2018-2023 is designed to promote the seamless integration of technology with instruction as a means of fulfilling the school division's mission. It incorporates the four focus areas of the *Educational Technology Plan for Virginia 2018-2023* and relates those –where possible- to the five focus areas of the National Education Technology Plan 2017: *Reimagining the Role of Technology in Education*.

	Enhance Personalized, Equitable Student Learning Experiences with Technology -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. (Learning)	Learning: Engaging and Empowering Learning through Technology -All learners will have engaging and empowering learning experiences in both formal and informal settings that prepare them to be active, creative, knowledgeable, and ethical participants in our globally connected society.	
irginia	Support Innovative Professional Learning with Technology	Teaching- Teaching with Technology	Natio
Educational Technology Plan for Virginia	-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. (Teaching)	-Educators will be supported by technology that connects them to people, data, content, resources, expertise, and learning experiences that can empower and inspire them to provide more effective teaching for all learners.	nal Education Tec
2018-2023 Educational Tech	Create Cultures of Change through Innovative Leadership Practices -Promote leadership that supports deeper learning experiences for students and innovative instructional practices by educators through the use of technology. (Leadership)	Leadership- Creating a Culture and Conditions for Innovation and Change -Embed an understanding of technology-enabled education within the roles and responsibilities of education leaders at all levels and set state, regional, and local visions for technology in learning.	National Education Technology Plan Update 2017
201	Secure and Robust Infrastructure	Infrastructure- Enabling Access and Effective Use	17
	-Promote and support a secure and robust technology infrastructure to support access, adequacy, and equity. (Infrastructure)	-All students and educators will have access to a robust and comprehensive infrastructure when and where they need it for learning.	
	No alignment in state plan.	Assessment- Measuring for Learning -At all levels, our education system will leverage the power of technology to measure what matters and use assessment data to improve learning.	

Executive Summary (cont.)

Alleghany County Public Schools (ACPS) recognizes the importance of technology in 21st century life. With this in mind, the division began planning its One-to-One Initiative during the fall and winter of 2015-2016. Implementation of the division's plan began during the spring of 2016 and was completed by the fall of 2018.

The framework for our infusion of technology into the mainstream of teaching and learning is the result of years of development and has been the ongoing focus of the district's technology committee. The group- in place with a varied membership since 1994- currently seats representatives from the district's central office and each school's faculty, staff, and administrative staff. Members of the community also serve.

Specific to our Initiative's vision, the school division provides access and training for every student and instructional staff member. It is our goal that all become technically literate and technically proficient. We believe our One-to-One Initiative provides the means to help our students learn core skills in a manner that will allow them to prepare for life beyond the classroom. And by placing a mobile device in each student's hands, the division has closed a digital divide allowing technology to become an equalizer and an impetus for life-long learning.

Looking ahead, Alleghany County Public Schools now has a student per computer ratio of one-to-one for those students who are enrolled in grades one through twelve. Therefore, ongoing maintenance of this favorable ratio becomes a top priority. And in order to provide the maximum benefit to our students, we must ensure that our technology continues to be integrated into our instructional practices. For this reason, our professional development program is key and must continue.

In summary, our technology plan reflects the current status of technology in Alleghany County Public Schools. It also describes our vision, mission, and goal framework for the next five years. The document is aligned with the 2018-2023 Educational Technology Plan for Virginia, the National Education Technology Plan Update, our division's Vision 2020 Plan, the goals and standards of New Tech Network, and the characteristics that are identified in the Profile of a Virginia Graduate.

In order to reflect our progress and to reflect an ongoing evaluation of emerging technologies, our plan will undergo a biannual review. From a financial perspective, the plan will receive an annual review. Ultimately, the execution of this plan is dependent upon available funding, relevant technologies, and staff availability.

ACPS Vision

Alleghany County Public Schools (ACPS) values diversity in teaching and learning and works together to meet students where they are to support them in achieving their highest potential. ACPS provides a nurturing environment that incorporates 21st century skills to develop life-long learners who are well-rounded citizens. ACPS also celebrate our successes.

ACPS Mission

Alleghany County Public Schools is committed to preparing all students to graduate. Students will:

- Be well rounded and productive citizens;
- Master 21st century skills;
- Exhibit a strong work ethic;
- Work collaboratively to accomplish team goals;
- Utilize effective communication skills;
- Demonstrate self-confidence in creative and constructive decision making; and
- Be dedicated to lifelong learning.

Our One-to-One Initiative- The Vision 2020 Plan

As part of our vision for the future, Alleghany County Public Schools is transitioning to a student centered, technology enriched and project based learning environment. The use of technology and technology resources in instruction enhances individual learning, student engagement, and results in students developing a personal motivation to learn. In other words, students are empowered to be self-motivated learners. Staff and students begin to focus on real world learning opportunities that employ 21st Century Skills. Thus, when students are provided real world learning opportunities in an enriched technological learning environment, the distinction between the uses of a device and the professional practice almost disappears which prepares them for life after high school.

Integrating technology into the curriculum on a daily basis provides the following:

- the ability for teachers to reach different types of learners;
- empowers students' intrinsic motivation for learning;
- enhances student participation;
- teachers become facilitators;
- develops 21st Century Skills;
- multiple methods of assessment;
- encourages students to work together in groups;
- enhances creativity;
- makes connections to the real world;
- students are engaged in the learning process;
- makes learning meaningful;
- improves feedback; and
- prepares students for the future in the workforce.

Therefore, all grade 4 through 12 students who are in attendance in the Alleghany County Public School district have 24-7 access to a personal computing device. Students in grades 1 through 3 have one-to-one access during school hours. Students who do not have Internet service at home can take advantage of after-hours Internet service at three locations in our district.

Working as a Team

The Alleghany County Public Schools Technology Committee meets monthly throughout the school year to discuss technology related issues as well as to discuss issues relevant to the division's one-to-one initiative. The committee is composed of the instructional/administrative staff, the Technology Testing Resource teaching staff (TTRTs), business/community leaders, and parents.

This plan's School Technology Needs Assessment was developed by the *William and Ida Friday Institute for Educational Innovation* at N.C. State University. The STNA was administered during the winter of 2017.

Connections to the Division's Mission

In order to master 21st century skills, students must not only be technologically literate, they must be technologically adept. The twenty-first century work place regardless of entry time (after high school or higher education) demands workers who are prepared to thrive in a technologically dynamic environment. Making creative and constructive decisions as an adult will require effective and efficient use of available and emerging technologies, some of which cannot be currently imagined. Public schools are charged with the task of preparing students to adapt to constantly changing technologies in collaborative work environments.

The Technology Plan -2010-2015			
Activity	Person(s) Responsible	Timeline	
Develop a framework for technology planning.	Technology Committee	April 2010	
Develop needs assessment	ITRTs	September 2010	
Assemble Technology Plan Committee	Director of Instruction	September 2010	
Administer needs assessment survey	ITRTs	October 2010	
Develop Technology Plan	Technology Plan Committee	October-December 2010	
Receive Technology Plan for approval	School Board	December 13, 2010	
Submit School Board approved plan to the Virginia Department of Education for approval	Director of Instruction	December 2010	

Historical Work of the Technology Committee

The Technology Plan- 2014 Revision		
Activity	Person(s) Responsible	Timeline
Develop a framework for	Technology Committee	February 2014
technology planning.		
Develop needs assessment	ITRTs	February 2014
Assemble Technology Plan	Director of Instruction	February 2014
Committee		

Administer needs assessment survey	ITRTs	March 2014
Revise Technology Plan	Technology Plan Committee	April 2014
Receive Technology Plan for approval	School Board	June 9, 2014
Submit School Board approved plan to the Virginia Department of Education for approval	Director of Instruction	June 30, 2014

The Technology Plan- 2017-2018 Revision			
Activity	Person(s) Responsible	Timeline	
Administer Needs Assessment	Supervisor of Technology	February 2017	
Revise and draft preliminary 2018 technology plan update (to generally reflect Technology Committee's work relative to 1:1 initiative).	Supervisor of Technology	March 2017	
Evaluation of 2017 Needs Assessment	Technology Committee Needs Assessment Subcommittee	March 2017	
Edit and Evaluate 2018 Technology Plan Update	Technology Committee Editing Subcommittee Budget Subcommittee Addenda Subcommittee	March/April/May 2017	
Present 2018 Plan Update to School Board	Supervisor of Technology	May 2017 (Information) June 2017 (Action)	
Submit 2018 Plan Update to the Virginia Department of Education	Supervisor of Technology	June 2017 (pending board approval)	

The Technology Plan- 2018-2023 Revision		
Activity	Person(s) Responsible	Timeline
Develop Goals	TTRTS, School Administration, Technology Committee Membership, Directors of Technology and Instruction	Spring 2018/Fall 2018
Revise and draft preliminary 2018 technology plan (to generally reflect Technology Committee's work.	Director of Technology	October/November 2018
Evaluation of 2017 Needs Assessment and Student- Level Needs Assessment	Technology Committee	Ongoing

Edit and Evaluate 2018- 2023Technology Plan	Technology Committee	November/December 2018
Present 2018 Plan Update to School Board	Director of Technology	November 2018 - Information December 2018 - Action
Advise Virginia Department of Education that plan is complete. No submission will be required	Director of Technology Director of Instruction Superintendent of Schools	January 2019 (pending board approval)

Evaluation Process and Planned Update Cycle

The 2018-2023 Alleghany County Public Schools Technology Plan will be evaluated and revised bi-annually by the Technology Committee (goals and emerging technologies). The budget will be revised on an annual basis. A needs assessment is planned for the 2019-2020 school year. A report to the Alleghany County Public Schools' School Board will be presented bi-annually.

2017 Needs Assessment- Executive Summary

A technology needs assessment was conducted beginning on February 28, 2017 and the assessment period concluded on March 8, 2017. The online School Technology Needs Assessment (STNA) was developed and hosted by the William and Ida Friday Institute for Educational Innovation at UNC-Greensboro. The 2017 survey is the fifth technology needs assessment that has been conducted in the past ten years and one hundred and fifty-two individuals participated. Although the results were also shared in 2018 technology plan update, the survey's results are included in this revision. In order stay on a biennial schedule, another needs assessment is planned for the fall of 2019. A graphical summary is provided in addendum eight.

The Friday Institute's survey was comprised of eighty-four questions focusing on the following criteria and sub-criteria:

- I. Supportive Environment for Technology Use
 - A. Vision and Shared Leadership
 - B. Organizational Conditions
 - C. Flexible Scheduling
 - D. Infrastructure
 - E. Staff Support
 - F. Media and Software
- II. Professional Development
 - A. Instruction
 - B. Planning
 - C. Quality
- III. Teaching and Learning
 - A. Instruction
 - B. Planning
 - C. Information and Communication Technologies

- IV. Impact of Technology
 - A. Teaching Practices
 - B. Student Outcomes

Needs Assessment- Conclusions (Taken from the 2017 Plan Update) *Progress indicated.

Supportive Environment for Technology Use

With regard to the division's supportive technical environment, participating teachers generally believe that the division's technical and instructional vision has been developed through an effective collaboration among all stakeholders. While three percent strongly disagreed, sixty percent either agreed or strongly agreed. Furthermore, sixty-two percent feel the division's vision for technology use has been effectively communicated to the community. Eleven percent of survey completers disagreed. Seventy-five percent of respondents believe the administrative team effectively models technology use.

Although the majority of participating staff believe that the division's technical environment is supportive, many offer that we are lacking in non-material incentives such as public recognition or special appreciation. Over one fourth of the division's instructional staff feel that innovators go unrecognized. <u>*ACPS Innovators Video Series</u>

From an organizational perspective and in addition to being generally supportive of the division's technology planning, majorities also believe <u>long-range</u> planning is in place. On the other hand, those same majorities –with respect to long-range planning - are not aware of the division's planning cycle. Also majorities believe that technology is not funded appropriately. More people agree rather than disagree that the division does pursue supplemental technical funding.

Teachers describe a positive opinion of the division's efforts to use technology as a communication tool for family and community outreach. However, they are not aware that ACPS evaluates multiple sources of data when planning the impact of technical initiatives on student outcomes. **Alignment with National Plan Update, Profile of a Virginia Graduate, etc.*

Teachers overwhelmingly agree that every classroom has at least one computer installed. Sixty percent of teachers cite appropriate access to a sufficient number of computers in order for them to plan for -at least- 2:1 activities. On the other hand, many teachers suggest that there is a need for greater access to projectors and printers. Fifty-four percent cite sufficient access to both projectors and printers. Nine percent offered no opinion. *<u>One-to-one rollout completion;</u> screen installation Hodnett Hall; twenty-three projectors purchased for 18-19; division-wide secure print/copier installation; projector replacement CMS/MVES Forum Hall.

Split almost evenly with the opposing view, a slight minority of teachers still generally believe that the reliability and speed of external connections is insufficient. To address this trend, the division's long-range Vision 2020 implementation is underway and will guarantee, by 2020, a mobile device for every student while also providing for a total infrastructure refresh at every instructional building. In addition, every instructional classroom will have an access point installed. <u>*Complete</u>

Specific to speed, the division's network and Internet contracts will be re-evaluated in the spring of 2018. Currently, Alleghany High School is provided with a one gigabyte connection (averaging fifty percent unused on the day-to-day). Each elementary school is provided with a 100 megabyte connection (rarely reaching peak), and the division's two gigabyte Internet head-end at Clifton Middle School – and shared by Mountain View Elementary School- has never

peaked. It is possible that the teachers may be correlating network speed with computer speed. *Shentel contract awarded in Spring 2018.

Although computers that are installed in each school's computer labs are replaced on a three to five year rotation, classroom computers have been supplied - in some cases- in hand-me-down fashion. Essentially, lab-use pcs are recycled for classroom use. Therefore, the oldest computers have traditionally been located in classrooms. Also, in 2016-2017, the division's antivirus software's foot print was identified as too great and therefore, the software is being replaced. The replacement will be complete by June 30, 2017. *Complete

With regard to the near even split between those identifying sufficient speed and reliability with those who do not, it is hoped that the one-to-one initiative, division-wide network refreshes, and the anti-virus software updates will improve the general staff's perception and move the needle toward a more positive opinion.

Although all staff enjoy the same leveling of web filtering -only malware, uncategorized sites, and pornographic sites are blocked, there is still work to be done specific to the level of filtering that students enjoy. Although the filtering system's hardware and software quality is outstanding, the majority of teachers believe that student-level filtering is too restrictive. Conversations and planning are underway to address the perceived but real deficiency.

*Ongoing

A member of the information technology department visits each school on a weekly basis. Often, two members of the IT team are assigned to the weekly site visit. Principals, resident experts, and many staff members have the ability to request phone support as necessary. And the information technology staff respond to any call that is identified as an emergency by the principal. Yet, twenty-five percent of teachers do not believe they have ready access to technical support. Although more study is needed, the statistic may be reflective of the fact that additional staff may need to volunteer and serve as building-level resident experts. In order to reverse the aforementioned trend, expanding the volunteer program at the elementary schools may be essential to a change in the perception.

In terms of the needs assessment's sub-criteria of media, software, and flexible scheduling, trends were positive in all areas.

Professional Development

From the needs assessment, the following trends were identified.

Teachers would benefit from professional development on:

- 1. Research-based practices that they can use in their teaching
- 2. Identification, location, and evaluation of technology resources, e.g., websites that they can use with their students.
- 3. Performance-based student assessments.
- 4. The use of technology to collect and analyze student assessment data.
- 5. Learner-centered teaching strategies that incorporate technology, e.g., project-based or cooperative learning.
- 6. Web security and safety.
- 7. The use of technology for differentiating instructions for students with special needs.
- 8. Uses of technology to increase professional productivity.
- 9. Ways to use technology to communicate and collaborate with families about school programs and student learning.
- 10. Ways to use technology to communicate and collaborate with other educators.
- 11. Alignment of lesson plans to content standards and student technology standards.

- 12. Use of research or action research projects to improve technology-enhanced classroom practices.
- 13. Use of data for reflecting on my professional practices.
- 14. Use of data to make decisions about the use of technology.
- 15. Use of technology to participate in professional development activities, e.g., online workshops, hands-on training in a computer lab.

With regard to professional development quality, many trends were positive. There is a general uncertainty as to the tracking of professional development's impact of on classroom practice and student learning. Also, many teachers would like an opportunity to evaluate the professional development activities that they are asked to attend. <u>*Ongoing- Each year twenty</u> <u>SAMR sessions are offered at each school. Instructional staff members are asked to attend</u> <u>twelve</u>.

Teaching and Learning

Through the survey results, it was determined that teachers frequently consult publications such as online journals in order to identify research-based practices that they can use in their classrooms. Similar frequencies were shown as teachers searched for student-use resources.

Although, many participating teachers apply performance-based student assessments to technology-enhanced lessons, it is of concern that twenty percent do not. Eight percent say they never use technology to collect and analyze student assessment data. And while the greatest majority of teachers regularly include technology-enhanced, learner-centered strategies, sixteen percent of participants say they never do so. *At AHS, all departments have completed a survey training session that focused upon Powerschool Assessment's longitudinal data capability.

Generally, respondents are believers in online security and safety but almost six percent cite a deficiency in that understanding. With regard to this statistic, a goal of the 2018 plan must include online safety training for every school. *<u>Access to Learning.com has been purchased</u> for all teachers who provide instruction for grades K-8. Online safety and security modules are included.

ACPS teachers use technology to differentiate instruction for their students with special learning needs but some may not realize the need or may not necessarily have a need to do so (four percent). On a daily basis, forty-two percent of survey completers use technology to support and increase their professional productivity. In addition, while thirteen percent are not using technology to communicate with families, the community, and other educators, the vast majority of teachers do.

Lesson planning is and must be a priority- especially with the division's 1:1 training requirements in mind- as one quarter of teachers do not include technology standards and content standards in their planning. Greater than twenty-five percent of responding teachers never use research projects to improve technology enhanced classroom practices. It is believed that this trend will improve as the division's one-to-one implementations and training plans move forward.

Teachers do frequently:

- 1. Use multiple sources of data for reflecting on their professional practices.
- 2. Use multiple sources of data to make decisions about the use of technology.
- 3. Use technology to participate in professional development.
- 4. Use a variety of technologies in the classroom.

Students frequently:

- 1. Use technology to access online resources.
- 2. Use technology to solve problems
- 3. Use technology to support higher-order thinking, e.g., analysis, synthesis, and evaluation.

A significant portion of teachers (thirty-five percent and twenty-eight percent) believe that students:

- 1. May not be using the same kinds of tools that are used by professional researchers.
- 2. Are not working on technology enhanced projects that approach real-world applications of technology.

Additionally, twenty-three percent of responding teachers do not believe that students are using technology to create new ideas and representations of information. With regard to the aforementioned negative trends, our division's project-based learning initiative must target those areas with respect to planning, training, and evaluation.

Impact of Technology

With regard to the impact of technology on their teaching practices, participating teachers generally agree their teaching practices emphasize uses of technology skills to support instruction. In the upcoming school year, many survey completers will need to have their students utilize Google productivity applications. Currently, over one quarter of respondents have no ability to do so. *Ongoing

Additionally, the one-to-one initiatives will provide training to the twenty-one percent of respondents who are unable to include student-uses of technology in their daily teaching practices.

Needs Assessment- Final Thoughts

Alleghany County Public Schools employs one hundred and sixty-nine teachers. Eighty-one percent completed the needs assessment survey. Although trends have been identified, those same trends may have been interpreted differently had all teachers participated. *Please see appendix eight.

Negative trends and conclusions are not drawn to signal a perception against any individual, group, department, or school. Negative trends serve as potential areas of attention, potential areas of training, and potential areas of positive growth.

Specific to goals completed and those needs that still require attention, ACPS is midway through its third school year with a full-time technical staff. ACPS is midway through its first year with each school having a dedicated Testing and Technology Resource Teacher.

ACPS has implemented a one-to-one initiative at Alleghany High School in 2017. The division deployed 510 Chromebooks at Clifton Middle School in August 2017 and concluded one-to-one implementations at Sharon Elementary, Callaghan Elementary, and Mountain View Elementary in August 2018. ACPS has embraced project-based learning and our high school is midway through its first year with the Echo learning management system.

With the aforementioned in mind, positive trends will continue to be supported and remedies for any troubling trend will be targeted for support, training, and evaluation during the period covered by this technology plan.

Our Goals

Enhance Personalized, Equitable Student Learning Experiences with Technology (VA-DOE)

Goal:

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.

Goals	Action (What action will be taken?)	Indicators (What evidence will exist of completion?)
 Students will develop deeper learning skills by leveraging technology as a resource or tool. Educators will leverage current and emerging technologies to increase opportunities for students to follow personalized learning pathways. Students will apply technology effectively to support the construction and application of content knowledge and skills. Students will demonstrate mastery in a variety of ways, including the use of technology through 	 I. Develop knowledge and skills while investigating a meaningful problem or asking a complex question (Project/Problem- based Learning and incorporating the 5 C's) A. Observe (Critical/Creative Thinking) B. Hypothesize (Critical/Creative Thinking) B. Hypothesize (Critical/Creative Thinking) C. Experiment (Communication and Collaboration) D. Conclude/Produce (Critical thinking, creative thinking, creative thinking, communication, collaboration) E. Application (Includes all of the 5 C's) II. Apply current and emergency 	 Shared Instructional Resources Echo (completed tasks) Learning.com (completed tasks and activities) SAMR Professional Development Schedules Personal Learning Plans Videos Online Assessments Promote in-school and out-of-school technology-based learning opportunities (such as pursuit of industry certifications, professional licenses, and dual enrollment courses) along with career exploration, exposure, and planning opportunities. Provide technology and computer science cross- curricular connections starting in the elementary grades and across all disciplines to promote meaningful, real world applications

 Intervention of digital artifacts. Educators will expose all students in content accessible learning comportunities including those in including these including the instructional resources and interventions in including the implement learning profiles. States, districts, and possible every where and all the time for all students. States, districts, and possible every where and all the time for all students. States, districts, and possible every where and all the time for all students. States, districts, and possible every pand implement learning. Multimedia Multimedia Multimedia 	the creation of	technologies in order	and promote deeper
 Educators will expose all students to career and college opportunities including those in the technical fields to promote workplace and coursework, mentorships and internships. National Recommendations States, districts, and postsecondary implement learning ecosystems that make learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and internet and postsecondary institutions should develop and internet learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and internet learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and Multimedia 		—	1
 A. Develop individual learner profiles that outline strengths, areas for including those in instructional resources and individual learning profiles. National Recommendations States, districts, and power of technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and the fore information. States, districts, and postsecondary institutions should develop and the post of institutions institutions in the information. States, districts, and postsecondary institutions should develop and the time for all students. States, districts, and postsecondary institutions should develop and thene for all students. States, districts, and postse	uigitai aitiiacis.		U 11
 Educators will expose all students to career and college opportunities including those in the technical fields to promote Utilize technology to workplace and coursework, mentorships and internships. National Recommendations States, districts, and postsecondary institutions should develop and the ime for all students. States, districts, and postsecondary institutions should develop and States, districts, and postsecondary States, distri		A. Develop individual	
 Educators will expose all students to career and opportunities including those in the technical fields to promote workplace and coursework, mentorships and internships. Utilize technology to match students with instructional resources and coursework, mentorships and internships. Utilize technology to edit/review/view learning profiles. Utilize technology in order to allow an individual learning profile to progress with a student through advanced course state embody the flexibility and power of technology to create equitable and accessible learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and the time for all students. States, districts, and postsecondary institutions should develop and the time for all students. States, districts, and postsecondary institutions should develop and the time for all students. States, districts, and postsecondary institutions should develop and Multimedia 		-	, e
expose all students to career and college opportunities including those in the technical fields to promote workplace and college readiness through advanced coursework, mentorships and internships.areas for improvement, identify needs, and track historical information.Integration students with participatory culture by providing resources related to Internet sudents with and skills for personal and data privacy (as specified by the Code of Virginia § 22.1- 70.20). (Learning.com)National RecommendationsC. Utilize technology to edit/review/view learning profiles.C. Utilize technology to edit/review/view learning profiles.C. Revision of Appendix 7National metorships and internships.D. Utilize technology to edit/review/view learning profile.Revision of Appendix 7National mecommendationsIII.Students will apply twelve digital literacy skills in support of content knowledge and skills.Revision of Appendix 7States, districts, and power of technology to create equitable and accessible learning possible everywhere and all the ime for all students.B. CodingStates, districts, and possible everywhere and all the ime for all students.D. Online Safety and Digital CitizenshipStates, districts, and possible everywhere and all develop andC. Computational ThinkingStates, districts, and postsecondary institutions should develop andC. Computational ThinkingStates, districts, and postsecondaryE. Computational ThinkingStates, districts, and postsecondaryF. Multimedia<	Educators will	-	
to career and collegeimprovement, identify needs, and track historical information.by providing resources related to Internet safety, digital citizenship skills, and student swith instructional mentorships and internships.by providing resources related to Internet safety, digital citizenship skills, and student swith instructional resources and learning activities.by providing resources related to Internet safety, digital citizenship skills, and student swith instructional mentorships and internships.National RecommendationsC. Utilize technology to edit/review/view learning profiles.C. Utilize technology to edit/review/view learning profiles.Providing resources related to Internet safety, digital citizenship skills, and student system to 20.0 (Learning.com)National RecommendationsD. Utilize technology in order to allow an individual learning profile to progress skills in support of content knowledge and skills.Revision of Appendix 7National RecommendationsIII. Students will apply twelve digital literacy skills in support of create equitable and accessible learning possible everywhere and all the time for all students.III. Students will apply twelve digital literacy skills in support of c. Keyboarding• States, districts, and possible everywhere and all develop and the time for all students.D. Online Safety and Digital Citizenship• States, districts, and postsecondary institutions should develop andE. Computational Thinking• States, districts, and postsecondary institutions should develop andE. Computatio		•	1
college opportunities including those in the technical fields to promote workplace and college readiness through advanced coursework, mentorships and internships.identify needs, and track historical information.opportunities safety, digital citizenship skills, and students with instructional resources and learning activities.National RecommendationsC. Utilize technology to edit/review/view learning profiles.C. Utilize technology to edit/review/view learning profiles.C. Utilize technology to edit/review/view learning profiles.C. Revision of Appendix 7National develop and enbody the flexibility and power of technology to create equitable and accessible learning possible everywhere and all the ime for all students.III.Student swill apply twelve digital literacy skills in support of content knowledge and skills.Revision of Appendix 7•States, districts, and power of create equitable and accessible learning possible everywhere and all the time for all students.B. Coding C. Keyboarding D. Online Safety and Digital Citizenship•States, districts, and possible everywhere and all the time for all students.E. Computational Thinking•States, districts, and possible everywhere and all the time for all students.E. Computational Thinking•States, districts, and postsecondary institutions should develop andF. Multimedia			
opportunities including those in the technical fields to promote workplace and college readiness through advanced coursework, mentorships and internships.Utilize technology to match students with instructional resources and learning activities.States, districts, and postecondary institutions should develop andUtilize technology in order to allow an individual learning profile to progress with a student through grade levels.C. Utilize technology in order to allow an individual learning profile to progress with a student through grade levels.C. Utilize technology in order to allow an individual learning profile to progress with a student through grade levels.C. Revision of Appendix 7National RecommendationsIII.Students will apply twelve digital literacy skills in support of content knowledge and skills.Revision of Appendix 7States, districts, and power of technology to create equitable and accessible learning possible everywhere and all the time for all students.III.Students will apply twelve digital literacy skills in support of content knowledge and skills.Revision of Appendix 7•States, districts, and power of technology to create equitable and accessible learning possibleC. Keyboarding•States, districts, and postsecondary institutions should develop andD. Online Safety and Digital Citizenship•States, districts, and postsecondary institutions should develop andD. Online Safety and Digital Citizenship		1	
 including those in the technical fields to promote workplace and college readiness through advanced coursework, mentorships and internships. National Recommendations States, districts, and postsecondary institutions should develop and ancecessible learning cosystems that make learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and and stills. States, districts, and postsecondary institutions should develop and and stills. States, districts, and postsecondary institutions should develop and and stills. States, districts, and postsecondary institutions should develop and and stills. States, districts, and postsecondary institutions should develop and and accessible learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and Multimedia 		•	
 the technical fields to promote workplace and college readiness through advanced coursework, mentorships and internships. National Recommendations States, districts, and postsecondary institutions should develop and States, districts, and power of flexibility and power of technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students with instructional resources and learning activities. Utilize technology to edit/review/view learning profiles. D. Utilize technology in order to allow an individual learning profile to progress with a student through grade levels. III. Students will apply twelve digital literacy skills in support of content knowledge and skills. Coding Keyboarding Computational through area ferty and Digital Citizenship States, districts, and postsecondary institutions should develop and States, districts, and postsecondary Coding Computational the time for all students. States, districts, and postsecondary Multimedia 			
to promote workplace and college readiness through advanced coursework, mentorships and internships.B. Utilize technology to match students with instructional resources and learning activities.and skills for personal and data privacy (as specified by the Code of Virginia § 22.1- 70.20). (Learning com)National RecommendationsC. Utilize technology to edit/review/view learning profiles.C. Utilize technology to edit/review/view learning profiles.C. Teation of STEM Lass at all elementary schools.National RecommendationsD. Utilize technology in order to allow an individual learning profile to progress with a student through grade levels.Revision of Appendix 7States, districts, and postsecondary institutions should develop and make learning possible everywhere and all the time for all students.M. Computer Fundamentals• States, districts, and postsecondary institutions should develop andB. Coding• States, districts, and postsecondary institutions should develop andD. Online Safety and Digital Citizenship• States, districts, and postsecondary institutions should develop andE. Computational Thinking• States, districts, and postsecondary institutions should develop andE. Computational Thinking• States, districts, and postsecondary institutions should develop andF. Multimedia		mormation.	
 workplace and college readiness through advanced coursework, mentorships and internships. National Recommendations States, districts, and postsecondary institutions should develop and accessible learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and States, districts, and possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and States, districts, and postsecondary States, districts, and postsec		B Utilize technology to	
college readiness through advanced coursework, mentorships and internships.instructional resources and learning activities.specified by the Code of Virginia § 22.1- 70.20). (Learning.com)Mational RecommendationsC. Utilize technology to edit/review/view learning profiles.C. eation of STEM Labs at all elementary schools.National RecommendationsD. Utilize technology in order to allow an individual learning profile to progress with a student through grade levelsRevision of Appendix 7III.States, districts, and power of technology to create equitable and accessible learning possible everywhere and all the time for all students.III.Students will apply twelve digital literacy skills in support of content knowledge and skillsRevision of Appendix 7•States, districts, and power of technology to create equitable and accessible learning possible everywhere and all the time for all studentsComputer Fundamentals•States, districts, and postsecondary institutions should develop andD. Online Safety and Digital Citizenship.•States, districts, and postsecondary institutions should develop and•States, districts, and postsecondary institutions should develop and•States, districts, and postsecondary institutions should develop and•States, districts, and postsecondary institutions should develop and•States, districts, and postsecon			-
Inrough advanced coursework, mentorships and internships.resources and learning activities.specified by the Code of Virgina § 22.1- 70.20). (Learning.com)Image: Coursework, mentorships and internships.C. Utilize technology to edit/review/view learning profiles.C. Cutilize technology to edit/review/view learning profiles.C. Cutilize technology to edit/review/view learning profiles.Image: Coursework, mentorships and internships.D. Utilize technology to edit/review/view learning profile to progress with a student through grade levels.C. Ceration of STEM Labs at all elementary schools.Image: Coursework and postsecondary institutions should develop andIII. Students will apply twelve digital literacy skills in support of content knowledge and skills.Revision of Appendix 7Image: Course that embody the flexibility and power of technology to create equitable and accessible learning possible everywhere and all the time for all students.B. Coding C. KeyboardingImage: Course that make learning possible everywhere and all the time for all students.D. Online Safety and Digital CitizenshipImage: Course that make learning possible everywhere and all the time for all students.E. Computational ThinkingImage: Course that make learning possible everywhere and all the time for all students.E. Computational ThinkingImage: Course that make learning possible everywhere and all the time for allD. Online Safety and Digital CitizenshipImage: Course that the time for all students.			
International coursework, mentorships and internships.learning activities.70.20). (Learning.com)National RecommendationsC. Utilize technology to edit/review/view learning profiles.C. Utilize technology to edit/review/view learning profiles.C. Revision of Appendix 7National RecommendationsD. Utilize technology in order to allow an individual learning profile to progress with a student through grade levels.Revision of Appendix 7• States, districts, and postscondary institutions should accessible learning possible everywhere and all the time for all students.III. Students will apply twelve digital literacy skills in support of content knowledge and skills.Revision of Appendix 7• States, districts, and possible everywhere and all the time for all students.B. Coding C. Keyboarding D. Online Safety and Digital CitizenshipP. Multimedia	<u> </u>		
mentorships and internships.C. Utilize technology to edit/review/view learning profiles.C. Earling.comNational RecommendationsC. Utilize technology in order to allow an individual learning profile to progress with a student through grade levels.C. Earling.com• States, districts, and postsecondary institutions should develop and implement learning resources that ecosystems that make learning possible everywhere and all the time for all students.Utilize technology to order to allow an individual learning profile to progress with a student through grade levels.Revision of Appendix 7National RecommendationsIII.Students will apply twelve digital literacy skills in support of content knowledge and skills.Revision of Appendix 7• States, districts, and possible everywhere and all the time for all students.III.Students will apply twelve digital literacy skills in support of content knowledge and skills.C. Computer Fundamentals• States, districts, and postsecondary institutions should develop andD. Online Safety and Digital CitizenshipD. Online Safety and Digital Citizenship• States, districts, and postsecondary institutions should develop andF. MultimediaHerming computed and postace condary			e .
internships.C. Utilize technology to edit/review/view learning profiles.Labs at all elementary schools.National RecommendationsD. Utilize technology in order to allow an individual learning profile to progressRevision of Appendix 7• States, districts, and postsecondary institutions should develop and implement learning resources that ecosystems that make learning possible everywhere and all the time for all students.III.Students will apply twelve digital literacy skills in support of content knowledge and skills.Revision of Appendix 7• States, districts, and possible everywhere and all the time for all students.III.Students will apply twelve digital literacy skills in support of content knowledge and skills.Power of fundamentals• States, districts, and possible everywhere and all the time for all students.D. Online Safety and Digital Citizenship• States, districts, and postsecondary institutions should develop andF. Multimedia	· · · · · · · · · · · · · · · · · · ·	learning activities.	
Internationedit/review/view learning profiles.Labs at all elementary schools.National RecommendationsD. Utilize technology in order to allow an individual learning profile to progress with a student through grade levels.Revision of Appendix 7States, districts, and postsecondary institutions should develop and embody the flexibility and power of technology to create equitable and accessible learning possible everywhere and all the time for all students.III.Students will apply twelve digital literacy skills in support of content knowledge and skills.•States, districts, and possible everywhere and all the time for all students.B. Coding C. Keyboarding D. Online Safety and Digital Citizenship•States, districts, and posstecondary institutions should develop andF. Multimedia		C. Utilize technology to	
Iteraming profiles.schools.National RecommendationsD. Utilize technology in order to allow an individual learning profile to progress with a student through grade levels.• Revision of Appendix 7• States, districts, and postsecondary institutions should develop andIII.Students will apply twelve digital literacy skills in support of content knowledge and skills.• Revision of Appendix 7• States, districts, and power of technology to create equitable and accessible learning possible everywhere and all the time for all students.III.Students will apply twelve digital literacy skills in support of content knowledge and skills.• States, districts, and postsecondary institutions should develop andD. Online Safety and Digital CitizenshipB.• States, districts, and postsecondary institutions should develop andF.Multimedia	internsnips.		
National RecommendationsD. Utilize technology in order to allow an individual learning profile to progress with a student through grade levels.• Revision of Appendix 7• States, districts, and postsecondary institutions should develop and embody the flexibility and power of technology to create equitable and accessible learning possible everywhere and all the time for all students.III.Students will apply twelve digital literacy skills.III.B. Coding content knowledge and skills.A. Computer FundamentalsA. Computer Fundamentals• States, districts, and possible everywhere and all the time for all students.D. Online Safety and Digital CitizenshipD. Online Safety and Thinking• States, districts, and postsecondary institutions should develop andF. Multimedia			schools.
National RecommendationsD. Utilize technology in order to allow an individual learning profile to progress with a student through grade levels.• States, districts, and postsecondary institutions should develop and implement learning resources that embody the flexibility and power of technology to create equitable and accessible learning possible everywhere and all the time for all students.D. Utilize technology in order to allow an individual learning twough grade levels.B. CodingIII.Students will apply twelve digital literacy skills in support of content knowledge and skills.B. CodingA. Computer FundamentalsB. CodingC. KeyboardingD. Online Safety and Digital CitizenshipF. Multimedia		learning promes.	Revision of Appendix 7
National Recommendationsorder to allow an individual learning profile to progress with a student through grade levels.• States, districts, and postsecondary institutions should develop andIII.Students will apply twelve digital literacy skills in support of content knowledge and skills.• Book and power of technology to create equitable and accessible learning possible everywhere and all the time for all students.III.• States, districts, and postsecondary institutions should develop andA. Computer Fundamentals• States, districts, and postsecondary institutions should develop andD. Online Safety and Digital Citizenship• States, districts, and postsecondary institutions should develop andF. Multimedia		D. Utilize technology in	
Recommendationsindividual learning profile to progress with a student through grade levels.• States, districts, and postsecondary institutions should develop andIII.Students will apply twelve digital literacy skills in support of content knowledge and skills.resources that embody the flexibility and power of technology to create equitable and accessible learning possible everywhere and all the time for all students.III.Students will apply twelve digital literacy skills in support of content knowledge and skills.•States, districts, and postsecondary institutions should develop andD. Online Safety and Digital Citizenship•States, districts, and postsecondary institutions should develop andE. Computational Thinking	National	÷.	
 States, districts, and postsecondary institutions should develop and implement learning resources that embody the flexibility and power of technology to create equitable and accessible learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and States, districts, and postsecondary institutions should develop and Multimedia 			
 States, districts, and postsecondary institutions should develop and implement learning resources that embody the flexibility and power of technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and States, districts, and postsecondary institutions should develop and Multimedia 	Recommentations	<u> </u>	
postsecondary institutions should develop and implement learning resources that embody the flexibility and power of technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students.III.Students will apply twelve digital literacy skills in support of content knowledge and skills.•States, districts, and postsecondary institutions should develop andA.Computer Fundamentals•States, districts, and postsecondary institutions should develop andE.Computational Thinking•States, districts, and postsecondaryF.Multimedia	• States districts and		
 institutions should develop and implement learning resources that embody the flexibility and power of technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and III. Students will apply twelve digital literacy skills in support of content knowledge and skills. A. Computer Fundamentals B. Coding C. Keyboarding D. Online Safety and Digital Citizenship F. Multimedia 			
develop and implement learning resources that embody the flexibility and power of technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students.III.Students will apply twelve digital literacy skills in support of content knowledge and skills.•States, districts, and postsecondary institutions should develop andIII.Students will apply twelve digital literacy skills in support of content knowledge and skills.•States, districts, and postsecondary institutions should develop andIII.Students.•States, districts, and postsecondary institutions should develop andIII.Students.		through grade levels.	
 implement learning resources that embody the flexibility and power of technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and twelve digital literacy skills in support of content knowledge and skills. Computer Fundamentals Coding Keyboarding C. Keyboarding D. Online Safety and Digital Citizenship E. Computational Thinking F. Multimedia 		III. Students will apply	
resources that embody the flexibility and power of technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students.skills in support of content knowledge and skills.•States, districts, and postsecondary institutions should develop andA. Computer Fundamentals•States, districts, and postsecondary institutions should develop andD. Online Safety and Thinking		11 5	
embody the flexibility and power of technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students.content knowledge and skills.•States, districts, and postsecondary institutions should develop andA. Computer Fundamentals•States, districts, and postsecondary institutions should develop andB. Coding•States, districts, and postsecondary institutions should develop andE. Computational Thinking			
flexibility and power of technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students.and skills.• States, districts, and postsecondary institutions should develop andA. Computer Fundamentals• States, districts, and postsecondary institutions should develop andB. Coding C. Keyboarding D. Online Safety and Digital Citizenship			
noncentry and power of technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students.A. Computer Fundamentals• States, districts, and postsecondary institutions should develop andB. Coding• States districts, and postsecondaryC. Keyboarding D. Online Safety and Digital Citizenship• States, districts, and postsecondary institutions should develop andE. Computational Thinking		÷	
 technology to create equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and A. Computer Fundamentals B. Coding C. Keyboarding D. Online Safety and Digital Citizenship E. Computational Thinking F. Multimedia 	-		
 Fundamentals Greate equitable and accessible learning ecosystems that make learning possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and Fundamentals Fundamentals Goding Coding Computational Thinking F. Multimedia 	1 -	A. Computer	
 Coding B. Coding B. Coding B. Coding C. Keyboarding C. Keyboarding D. Online Safety and Digital Citizenship E. Computational Thinking F. Multimedia 		-	
ecosystems that make learning possible everywhere and all the time for all students.B. Coding• States, districts, and postsecondary institutions should develop andD. Online Safety and Digital Citizenship• States, districts, and postsecondary institutions should develop andE. Computational Thinking	4		
 C. Keyboarding possible everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and C. Keyboarding D. Online Safety and Digital Citizenship E. Computational Thinking F. Multimedia 		B. Coding	
possible c. Keyboarding everywhere and all D. Online Safety and the time for all D. Online Safety and students. E. Computational • States, districts, and Thinking postsecondary F. Multimedia	-	-	
 everywhere and all the time for all students. States, districts, and postsecondary institutions should develop and D. Online Safety and Digital Citizenship E. Computational Thinking F. Multimedia 		C. Keyboarding	
 the time for all students. States, districts, and postsecondary institutions should develop and D. Online Safety and Digital Citizenship E. Computational Thinking F. Multimedia 	· · · ·		
 students. States, districts, and postsecondary institutions should develop and E. Computational Thinking F. Multimedia 		•	
 States, districts, and postsecondary institutions should develop and E. Computational Thinking F. Multimedia 		Digital Citizenship	
States, districts, and Thinking postsecondary institutions should F. Multimedia develop and			
postsecondary institutions should F. Multimedia develop and	States districts and	-	
institutions should F. Multimedia develop and		Thinking	
develop and	· · · · ·		
•		F. Multimedia	
Imprement rearining			
			l

•	resources that use technology to embody design principles from the learning sciences. States, districts, and postsecondary institutions should take inventory of and align all learning technology resources to intended educational outcomes. Using this inventory, they should document all possible learner pathways to expertise, such as combinations of formal and informal learning, blended learning, and distance learning.	IV.
•	Education stakeholders should develop a born accessible standard of learning resource design to help educators select and evaluate learning resources for accessibility and equity of learning experience.	V.
•	[Continue to explore how the	

• [Continue to explore] how the learning sciences technology is developed and used in school settings.

G. Internet Usage and Online Communication	
H. Visual Mapping	
I. Word Processing	
J. Spreadsheets	
K. Databases	
L. Presentations	
IV. Students will utilize technology to witnes the connections between the classroom, careers, and the community by:	s
A. Developing a caree plan that is aligned with his or her interests and experiences.	r
B. Developing workplace skills.	
C. Developing a sense of civic responsibility.	
V. Review alignment of Internet safety curriculum with VA standards of learning	

*Goals are written as listed in the state and national plans. Indicators and actions are local design or –if applicable- are of state design.

Support Innovative Professional Learning with Technology (VA-DOE)

Goal:

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.

Goals	Action (What action will be taken?)	Indicators (What evidence will exist of completion?)
 Educators support personalized, deeper learning experiences that are enhanced through appropriate and meaningful technology integration. Through the use of technology supports (e.g., learning and/or content management systems, student information systems, and adaptive technologies) educators will monitor students' progress to personalize learning and inform instructional practices. Educators utilize the instructional technology resource teacher model to support student engagement through technology in the classroom. Educators understand how to enhance 	 Define the SAMR model as the appropriate method by which technology will enhance instruction. At each school, require the presentation of twenty SAMR (substitution, augmentation, modification, and redefinition) professional development activities per year. At each school, each educator must participate in twelve SAMR activities per year. Rigor must be appropriate and each activity must be at least thirty minutes in duration. Current and emerging technology-based resources used by educators as indicated by the Technology 	 Develop and revise existing policy and guidance documents to support innovative learning experiences. Work collaboratively with teacher and technology stakeholders to create instructional resources that can be used by educators to support innovative learning experiences. Document SAMR profession development activities and participation. Lesson Plans Classroom Observation Administrative Feedback Promote in-school and out-of-school technology-based learning opportunities (such as pursuit of industry certifications, professional licenses, and dual enrollment courses) along with career exploration, exposure, and

	ction (What action will be	Indicators (What evidence
performance-based and alternative assessments through the intentional integration of technology. National Recommendations Provide pre-service and in- service educators with professional learning experiences powered by technology to increase their digital literacy and enable them to create compelling learning activities that improve learning and teaching, assessment, and instructional practices. Use technology to provide all learners with online access to effective teaching and better learning opportunities with options in places where they are not otherwise available Develop a teaching force skilled in online and blended instruction Develop a common set of technology competency expectations for university professors and candidates exiting teacher preparation programs for teaching in technologically enabled schools and postsecondary	ction (What action will be taken?)Needs Assessment responses.• Collect information on the number of students enrolled in advanced coursework (e.g., dual enrollment, AP) internships, and mentorships or receiving industry certifications.• Provide technology supports as follows: -G-Suite -Google Classroom -Echo -Powerschool -Learning.com -Imagine Learning -Discovery Education -Assessment and Analytics -Reasoning Mind -School Pace -Read/Write -Electronic textbooks and associated content• Fully fund the TTRT	 Indicators (What evidence will exist of completion?) planning opportunities. Provide information about assistive technology availability and uses through the Training and Technical Assistance Centers (TTAC). Support instruction in the development of rubrics and other evaluation tools for use with performance-based assessment that integrate technology. Coordinate and collaborate partnerships with professional organizations, businesses, and local school divisions to ensure targeted and strategic professional learning experiences in the area of instructional technology. Division Budget

* Goals are written as listed in the state and national plans. Indicators and actions are local design or -if applicable- are of state design.

Create Cultures of Change through Innovative Leadership Practices (VA-DOE)

Goal:

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

Goals	Action (What action will be taken?)	Indicators (What evidence will exist of completion?)
 Educational leaders support the vision for teaching and learning that includes the appropriate use of technology. Educational leaders are able to communicate and guide the implementation of division and school goals for teaching and learning that integrate technology and promote innovation. Educational leaders model tolerance for risk and experimentation and create a culture of trust and innovation. Educational leaders support, secure and advocate for resources to sustain technology initiatives and goals including those designed to support personalized learning environments. 	 Provide advice as to the technical qualifications needed for school leadership positions that require an understanding of the use of technology in learning and school operations. Provide opportunities implement and evaluate new technologies and instructional approaches (SAMR). Build teams of early adopters, interested educators, and school leaders and collaborate frequently. (SAMR) Sustain a planned approach for all technical purchases. Promote and provide professional learning opportunities regarding educational technology leadership, research, and innovations in education (SAMR PD). Promote the effective and efficient use of 	 Types and numbers of professional learning opportunities are documented and recorded. Number of professional online courses and resources offered to educators and number of participant completers. Budget/Technology Purchase Requests TTRT Weekly Schedules Current and emerging technology-based resources used by leaders, schools, as indicated by the Technology Needs Assessment responses. Document (agendas) Technology and 1:1 committee meetings.

Goals	Action (What action will be taken?)	Indicators (What evidence will exist of completion?)
 Educational Leaders promote the use of a variety of innovative instructional strategies and practices developed with current and emerging technology-based resources to support the innovative instructional approaches in the classroom. Educational leaders possess the capability to efficiently and effectively use technology in the performance of job duties (data-driven decision making, educator evaluations, communications, and more). Technology is included in technical assistance and school improvement resources provided by to educational leaders based upon school and school division needs. Establish clear strategic planning connections among all state, district, university, and school levels and how they relate to and are 	 taken?) Testing and Technology Resource Teachers. Model and provide training for the use of administrative technologies. Collaborate with other organizations to provide opportunities for leaders to meet, collaborate, and share ideas, resources, and effective practices, and to promote professional learning networks through social networking tools (Shared Instructional Resources). Review practices through monthly Technology/1:1 Committee meetings. 	 Post Innovators' videos. Shared Instructional Resources

Goals	Action (What action will be taken?)	Indicators (What evidence will exist of completion?)
supported by		
technology to improve		
learning.		
• Set a vision for the use		
of technology to		
enable learning such		
that leaders bring all		
stakeholder groups to		
the table, including		
students, educators,		
families, technology		
professionals,		
Develop funding		
models and plans for		
sustainable technology		
purchases and		
leverage openly		
licensed content while		
paying special		
attention to		
eliminating those		
resources and tasks		
that can be made		
obsolete by		
technology.		
Develop clear		
communities of		
practice for education		
leaders at all levels		
that act as a hub for		
setting vision,		
understanding		
research, and sharing		
practices.		

*Goals are written as listed in the state and national plans. Indicators and actions are local design or –if applicable- are of state design.

Secure and Robust Infrastructure (VA-DOE)

Goal:

Promote and support a secure and robust technology infrastructure to support access, adequacy, and equity.

Goals	Action (What action will be taken?)	Indicators (What evidence will exist of completion?)
 Students, educators, and leaders have equitable access to secure and robust networks that provide high quality, reliable access to the Internet and other networks. Employ best practices that comply with federal, state, and industry guidelines and recommendations to minimize network threats and vulnerabilities and protect educational data. Students, educators, and leaders have equitable access to computing devices and other digital resources, including assistive technologies. Maintain technical and human resources to ensure effective evaluation of infrastructure costs and other considerations necessary for high quality and reliable 	 Annual review of Technology Needs Assessment. Promote equitable access to high quality, effective learning environments for all students by supporting efforts to reduce barriers to technology access (Kajeet). Budget for and maintain device interoperability, broadband capacity, and network capabilities. Promote the continual use of broadband capability in support of digital learning. Continue local participation in the E-rate and VPSA programs in order to maximize resources available to students, educators, and school leaders. Use cooperative purchase agreements when appropriate. Ensure safety and security issues but 	 Biennial technology needs assessment. Network Monitoring Technology Budget/Purchase Documentation SAMR Professional Development Documentation Technology Committee Meeting Agendas. Erate/VPSA Documentation Document state contract numbers and cooperative purchase agreement numbers on all quotes. Routine Security and Safety Audits. Written Data Sharing Agreement Formal Software Adoption Guide Routing testing of all web resources via WAVE. Staff Meeting Agendas

Goals	Action (What action will be taken?)	Indicators (What evidence will exist of completion?)
 access to the Internet and other networks used by students, educators, and leaders in innovative way. National Recommendations Ensure students and educators have broadband access to the internet and adequate wireless connectivity, with a special focus on equity of access outside of school. Ensure that every student and educator has at least one internet access device and appropriate software and resources for research, communication, multimedia content creation, and collaboration for use in and out of school. Support the development and use of openly licensed educational materials to promote innovative and creative opportunities for all learners and accelerate the development and adoption of new open technology-based 	 allow for instructional innovation. Review evaluation criteria and standards in order to ensure informed purchases of computing devices and other digital resources, including assistive technologies. Develop a data sharing agreement. Guide software adoption toward applications that encourage interactivity and personalized learning. Ensure that assistive technology services and devices are implemented in accordance with the Individuals with Disabilities Education Act (IDEA). Provide guidance on the efficient use of the technical support personnel. Weekly Website Updates 	

Goals	Action (What action will be taken?)	Indicators (What evidence will exist of completion?)
learning tools and coursesDraft sustainability		
plans for infrastructure		
concerns that include upgrades of wired and wireless access as well		
as device refresh plans and sustainable		
funding sources while ensuring the safety		
and protection of student data.		
• Create a comprehensive map and database of		
connectivity, device access, use of openly licensed educational		
resources, and their uses across the		
country.		

*Goals are written as listed in the national plan. Indicators and actions are local design.

Assessment- Measuring for Learning

Goal

At all levels, our education system will leverage the power of technology to measure what matters and use assessment data to improve learning.

Goals	Action (What action will be taken?)	Indicators (What evidence will exist of completion?)
 Maintain the district's online SOL testing capability through appropriate hardware investment, staff training, and best practices review. Maintain the division's technology supports for assessment: Echo Powerschool G-Suite Powerschool Assessment and Analytics. TestNav ProctorCaching 	 Annual Training Programs Hardware Review Pre-Test Preparation Data Review Software Updates Compatibility Review Network Performance Assessment. 	 Technology Tickets System Logs Agendas Email System Performance

Alleghany High School Technology Plan/Goals (2018-2020)

Goal One: Learning

Students will develop deeper learning skills by leveraging technology as a resource or tool, apply technology effectively to support and apply the content knowledge and skills, and have increased opportunities to follow personalized learning pathways. Through curriculum, school resources, collaboration, and school wide data students will have enhanced personalized an equitable student learning experience with technology.

Goal Two: Teaching

Support innovative professional learning with technology for educators to increase the quality of education and equity for students. By using technology that connects the educator to people, data, content, resources, expertise, and learning experiences can empower and inspire them to provide more effective teaching for all learners. Educators will provide students with meaningful and real-world learning experiences through the connection to content and careers through technology.

Goal Three: Leadership

Promote leadership and create cultures of change through innovative leadership practices by educators through the use of technology. Educational leaders will model tolerance for risk and experimentation and create a culture of trust and innovation. Through educator development meetings, technology sessions, and discussion forums instructional strategies and practices will be developed with current and emerging technology-based resources to support the innovative instructional approaches in the classroom and throughout the community, and educational leaders will also possess the capability to efficiently and effectively use technology in the performance of job duties and in the classroom.

Goal Four: Infrastructure

Support and promote a secure and robust technology infrastructure for all students and educators for learning purposes. Educators will develop professional development opportunities to be proficient with digital learning tools through the sustainability and capacity of the network.

(In five years- Educators will partner with community and government leaders and work to expand the role of community broadband.)

Goal Five: Assessment

Our education system will leverage the power of technology to measure digital learning content, tools, and resources and use assessment data to improve learning and the educators shared set of skill standards. Create and validate an integrated system to support the complex aspects of 21st Century expertise and competencies across the academic disciplines and school wide 1:1 initiative.

Overall Goal:

Alleghany High School will continue with the 1:1 initiative and implement Project Based Learning school-wide. Through integrated classes educators and students will develop a vision that includes the appropriate use of technology, appropriate learning environments, and innovation with current and emerging technology-based resources to also support the 1:1 Initiative, New Tech, Project Based Learning, and the ability to successful use future technologies in and outside of the classroom. Page Intentionally Left Blank

arnin
; Le
20)
18-2020
(201
al 1 (
602
MS-
Ú.

18-2020); Learning is o deeper learning o deeper learning technology as a to increase it to increase it to increase student l upport the by instru- upport the by instru- upport the use by technology by technology student l by instru- upport the by instru- upport the use by instru- by instru- by instru- upport the use by instru- by instru-		Indicators Actions or Evaluations	*Number of student products involving *Fully fund 1:1 initiative technology will increase *Maintain SAMR training	(Creative Thinking)	*Utilize technology and programs to increase *Revision Assistant student learning at their own pace *VMath *VMath	*Teachers use differentiated variety of options in assigning tasks (Critical Thinking)	and other apps as selected	*Students will create digital portfolios using a *Complete Presentations (Sheets, Powerpoint, variety of applications. *Continue to provide access to Google Classroom (Critical and Creative Thinking, Collaboration)	*Students explore college and career opportunities *WRS Competencies (CTE Classes) *Guidance Classes (Interest Inventory) *Talent Search (DSLCC)
S - Goal 1 (2018-2020); Results dents will develop deeper learn dents will develop deeper learn ills by leveraging technology a resource or tool. resource or tool. resource or tool. Students and emerging technology will be leveraged to increase portunities for students to folloge ersonalized learning pathways effectively to support the construction and application of content knowledge and skills. Students will apply technology effectively to support the construction and application of content knowledge and skills. All students will demonstrate master ariety of ways, including the technology through the creation digital artifacts. All students will be exposed to areers and college opportunitie uding those in the technical fig promote workplace and college	CMS - Goal 1 (2018-2020); Learning	i			S: A	personalized learning pathways.	Students will apply technology*Use of Google Suite an effectively to support the by instructional staff construction and application of content knowledge and skills.		All students will be exposed to *Students explore college careers and college opportunities including those in the technical fields to promote workplace and college readiness through advanced

CMS - Goal 2 (2018-2020); Teaching

	T	r	-	1	
Actions or Evaluations	*Provide Ongoing PD through Tech Tuesday *Use Google Classroom to utilize PD *TTRT will continue to provide support to teachers (Creative & Critical Thinking)	*Provide all teachers with Net-Op and document carneras for use on Chromebooks *Continue using Google Classroom *Monitor student progress using Revision Assist., AR, VMath, etc. *Use results from PowerSchool (IA) (Critical Thinking and Collaboration)	*Provide Ongoing PD through Tech Tuesday (Teachers will attend 12 of 20 sessions) *Teachers should provide PD during Tech Tuesday (Critical Thinking, Collaboration, Community)	*Use of Distance learning to expand the use of technology (Critical and Creative thinking, Communication, Collaboration, Citizenship)	*Use CTE competencies *Guidance Classes Interest Inventories (Critical and Creative thinking, Communication, Collaboration, Citizenship)
Indicators	*1:1 Imitative *Use of technology increases in all subject areas	*Net-Op for Chromebooks *PowerSchool Analytics & Assessment (IA)	*Keep track of PD learning opportunities by documenting and recording	*Explore Long-distance learning	*Exposure to CTE course offerings and Guidance classes
Results	Educators support personalized, deeper learning experiences that are enhanced through appropriate and meaningful technology integration.	Through the use of technology supports (e.g., learning and/or content management systems, student information systems, and adaptive technologies) educators will monitor students' progress to personalize learning and inform instructional practices.	Educators utilize the instructional technology resource teacher (TTRT) model to support student engagement through technology in the classroom.	Educators understand how to enhance performance-based and alternative assessments through the intentional integration of technology.	Educators will make connections to content and careers in technical fields by providing students with meaningful, real-world learning experiences to promote workplace, citizenship, vocational, military, and college readiness skill development.

uip
5
5
Ĕ.
୍
20
2
20
2018-202
00
Ξ
2018
\mathbf{C}
\mathbf{m}
oal
ŭ
\mathbf{U}
\mathbf{S}
5
5
\checkmark

	Indicatowo	Antione on Dualuations
Educational leaders develop a vision for teaching and learning that includes the appropriate use of technology.	*Begin integrating Computer Science Standards	*Will document in standards in lesson plans to be shared with principal (Critical and Creative thinking, Communication, Collaboration, Citizenship)
Educational leaders are able to communicate and guide the implementation of division and school goals for teaching and learning that integrate technology and promote innovation.	*TTRT will lead by example through SAMR training	*Continue Tech Tuesdays *PD during workdays *Teachers will lead PD (Cnucal and Creative thinking, Communication, Collaboration, Citizenship)
Educational leaders model tolerance for risk and experimentation and create a culture of trust and innovation.	*Educators will explore Apps and Add-ons, as well as other types of technology *Encourage student-lead instruction	*TTRT available to assist as needed in classrooms *Ongoing PD (Critical and Creative thinking, Communication, Collaboration)
Educational leaders support, secure and advocate for resources to sustain technology initiatives and goals including those designed to support personalized learning environments.	*TTRT will work with staff and administrators to advocate for resources to enhance technology	*Discussions during Faculty Meetings, Grade Level and Department Meetings (Critical and Creative thinking, Communication, Collaboration)
Educational leaders promote the use of a variety of innovative instructional strategies and practices developed with current and emerging technology-based resources to support the innovative instructional approaches in the classroom.	*Year 1&2: TTRT will design and guide activities through SAMR *Year 3-5: TTRT will transition teacher into the role of guiding activities	*TTRT will provide teachers support in the classroom. (Critical and Creative thinking, Communication, Collaboration, Citizenship)
Educational leaders possess the capability to efficiently and effectively use technology in the performance of job duties (data drive decision making, educator, evaluations, communications, etc	*Use PowerSchool Analytic (IA) data to plan and facilitate learning objectives (small group, etc.) *Use SOL results	*Use data from IA (Unit tests, benchmarks, SGA, Quiz) *Use SOL results (Critical and Creative thinking, Communication, Collaboration)

Results Results Students, educators, and leaders have equitable access *R to secure and robust networks that provide high quality, *V reliable access to the Internet and other networks. *S	Indicators	Actions or Evaluations
<u> </u>		CITATION AT TATATATING
uality,	*Recent network upgrades	*IT Staff visits once per week
-	*Visits from IT Staff *School Dude (Work Orders)	*All staff is trained to do work orders
		(Critical and Creative thinking,
		Communication, Collaboration,
		Citizenship)
Schools and school divisions use best practices that *R	*Receipt of emails from IT Staff	*Communication with staff informing of
comply with federal, state, and industry guidelines and *C	*Online Safety Training	potential security issues
recommendations to minimize network threats and * D	*Digital Citizenship Training	
vulnerabilities and protect educational data.		(Critical and Creative thinking,
		Communication, Collaboration,
		Citizenship)
Students, educators, and leaders have equitable access *1	*1:1 Initiative	*1:1 (Chromebooks)
to computing devices and other digital resources, * U	*Use of other devices for	*Students have access to individualized
including assistive technologies.	differentiation	Apps
		(Critical and Creative thinking,
		Communication, Collaboration,
		Citizenship)
man	*Meeting agendas	*Frequent division technology meetings
resources that enable the effective evaluation of		*TTRT Meetings
infrastructure costs and other considerations necessary		*1:1 Initiative Meetings
for high quality and reliable access to the Internet and		*Parent Trainings
other networks used by students, educators, and leaders		
in innovative ways.		Critical and Creative thinking,
		Communication, Collaboration,
		Citizenship)

CMS - Goal 4 Goal 3 (2018-2020); Infrastructure

CMS - Goal 5 (2018-2020); Assessment

Results	Indicators	Actions or Evaluations
Educators will use assessment data to	*SOL Results	*23/45 Data Tracking
support learning.	*IA Results	*Student performance results analyzed
	*Renaissance (STAR Reading and Math)	to guide instruction
		(Critical and Creative thinking
		Communication, Collaboration)
Educators will transform assessment	*1:1 Initiative	*Continuation of 1:1
through the use of technology.	*Google Suite	*Continued Tech Tuesday Trainings
	*Apps by other devices as available	,
		(Critical and Creative thinking,
		Communication, Collaboration)
Educators will develop a shared set of skill standards.	*Adoption of VDOE Computer Science Standards	*Ongoing instruction regarding implementation of standards
		(Critical and Creative thinking,
		Communication, Collaboration, Citizenship)

Elementary - Goal 1 (2018-2020); Learning

Results	Indicators	Actions or Evaluations
Students will develop deeper learning skills by leveraging technology as a resource or tool.	 Number of student products involving technology will increase Increasing PBL's 	 Provide meaningful SAMR trainings for teachers Provide funding for the 1:1 Chromebook initiative (CREATIVE THINKING)
Current and emerging technologies will be leveraged to increase opportunities for students to follow personalized learning pathways.	Utilizing technology & programs to increase students learning at their own pace.	 Providing all classroom teachers with NetOp to help monitor students Continue to provide individualize programs such as VMATH & AR (CRITICAL THINKING)
Students will apply technology effectively to support the construction and application of content knowledge and skills.	Utilizing technology to apply the content skills learned	 Providing all classroom teachers with NetOp to help monitor students Provide funding for the 1:1 Chromebook initiative Continue to allow access to Google Classroom & Online activities such as Kahoot (CRITICAL THINKING)
Students will demonstrate mastery in a variety of ways, including the use of technology through the creation of digital artifacts.	Student products involving Technology	 Continue to allow access to Google Classroom Provide opportunities to use Blockly Programs (CRITICAL THINKING, CREATIVE THINKING & COLLABORATION)
All students will be exposed to careers and college opportunities including those in the technical fields to promote workplace and college readiness through advanced coursework, mentorships, and internships.		

Elementary - Goal 2 (2018-2020); Teaching

	chers	with gle ch as L		-) (fi
ions	ss bort as tea VG &	1 teachers students' ss to Gooj trivities su to Write CRITICA RATION)	ichers wil ions offer CRITICA ATION &	nodel CRITICA VTION, FIZENSH
Actions or Evaluations	Provide SAMR trainings Provide classroom support as teachers try new apps etc. (CREATIVE THINKING & CRITICAL THINKING)	 Providing all classroom teachers with NetOp to help monitor students' progress Continue to allow access to Google Classroom & Online activities such as VMATH, AR & Read to Write (CREATIVE THINKING, CRITICAL THINKING & COLLABORATION) 	 SAMR Trainings – Teachers will attend 12 of the 20 sessions offered. (CREATIVE THINKING, CRITICAL THINKING, COLLABORATION & COMMUNICATION) 	Use the STEM Lab to model intentional integration (CREATIVE THINKING, CRITICAL THINKING, COLLABORATION, COMMUNICATION & CITIZENSHIP)
Actions o	Provide SAMR t Provide classrooi try new apps etc. (CREATIVE THI CRITICAL THIN	Providing all NetOp to hel progress Continue to a Classroom & VMATH, AF VMATH, AF EATIVE THI KING & CO	 SAMR Trainings - attend 12 of the 20 (CREATIVE THINKIN THINKING, COLLAB COMMUNICATION) 	Use the STEM Lab to intentional integration EATIVE THINKING, NKING, COLLABOR, MMUNICATION & CI
	• • C.C.C.	Provent	• SAJ atte (CREA1 THINKI COMMI	Use inte (CREA1 THINKI THINKI COMMI
	ases lytics	p in lytics	f PD y ling	
LS	Use of technology increases in all subjects. IA - PowerSchool Analytics & Assessment	Teachers will use NetOp in some capacity IA - PowerSchool Analytics & Assessment	TTRT will keep track of PD learning opportunities by documenting and recording	
Indicators	Use of technol in all subjects. IA - PowerSch & Assessment	Teachers will some capacity IA - PowerSch & Assessment	T will ke	STEM Lab
	• Use in al • IA - & A	• Tead somu & A - & A	• TTR learr docu	• STE
	Educators support personalized, deeper learning experiences that are enhanced through appropriate and meaningful technology integration.	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.	Educators utilize the instructional technology resource teacher (TTRT) model to support student engagement through technology in the classroom.	Educators understand how to enhance performance-based and alternative assessments through the intentional integration of technology.
Results	personali: es that ar ate and m integratio	ie of technolog ning and/or co ent systems, ad on systems, ad educators wil ogress to pers ogress to pers practices.	e the instr rce teache student en ty in the c	and how 1 eed and al ugh the in of technol
Res	rs support personalized g experiences that are er th appropriate and mear technology integration.	cough the use of technology supple (e.g., learning and/or content management systems, student information systems, adaptive chnologies) educators will monit students' progress to personalize learning and inform instructional practices.	Educators utilize the instructional chnology resource teacher (TTR1 odel to support student engageme rough technology in the classroon	clucators understand how to enhanc performance-based and alternative assessments through the intentional integration of technology.
	Educator learning through te	Through (e.g. man infor infor technolc studer learnir	Educa technolc model to through	Educator perforr assessn int

Elementary – Goal 3 (2018-2020); Leadership

Actions or Evaluations	 Teachers will show standards in lesson plans (CREATIVE THINKING, CRITICAL THINKING, COLLABORATION, COMMUNICATION & CITIZENSHIP) 	 PD Trainings & informational videos posted in Google Classroom STEM Lab activities (CREATIVE THINKING, CRITICAL THINKING, COLLABORATION, COMMUNICATION & CITIZENSHIP) 	 TTRT is available to assist as needed (CREATIVE THINKING, CRITICAL THINKING, COLLABORATION, & COMMUNICATION) 	 Faculty Meetings Grade Level Leadership Meetings (CREATIVE THINKING, CRITICAL THINKING, COLLABORATION, & COMMUNICATION) 	 TTRT will help teachers to create activities TTRT will support teachers and meet them where they are (CREATIVE THINKING, CRITICAL THINKING, COLLABORATION, COMMUNICATION & CITIZENSHIP)
Indicators	Begin integrating Computer Science Standards	 TTRT leads by example through SAMR & STEM lab 	Explore Apps & add-ons in Google as well as other types of technology	 TTRT will work with staff & admin to advocate for resources to enhance technology 	During year 1 & 2 TTRT will design & facilitate STEM activities During year 3 -5 TTRT will help transition to teachers facilitating STEM activities
	uo	~	97 17	ain ort its.	es se
Results	Educational leaders develop a vision for teaching and learning that includes the appropriate use of technology.	Educational leaders are able to communicate and guide the implementation of division and school goals for teaching and learning that integrate technology and promote innovation.	Educational leaders model tolerance for risk and experimentation and create a culture of trust and innovation.	Educational leaders support, secure and advocate for resources to sustain technology initiatives and goals including those designed to support personalized learning environments.	Educational leaders promote the use of a variety of innovative instructional strategies and practices developed with current and emerging technology-based resources to support the innovative instructional approaches in the classroom.

Educational leaders possess the	 SOL Results 	 Use data from IA practice
capability to efficiently and	 Increase the use of IA for 	assignments or task cards & tests
effectively use technology in the	practice or task cards &	(CREATIVE THINKING, CRITICAL
performance of job duties (data drive	tests to guide small groups	THINKING, COLLABORATION, &
decision making, educator,	,	COMMUNICATION)
evaluations, communications, etc.	1	
Technology is included in technical		
assistance and school improvement		
resources provided by educational		
leaders based upon the school and		
school division needs as determined		
by criteria such as Accreditation		
Matrix Performance Levels.		

Elementary - Goal 4 (2018-2020); Infrastructure

Results	Indicators	Actions or Evaluations
Students, educators, and leaders have equitable	 Recent network updates 	IT staff visits each school
access to secure and robust networks that	from IT staff	once a week or as needed
provide high quality, reliable access to the Internet and other networks.	School Dude	Teachers are trained on inputting a ticket on School
		Dude (CREATIVE THINKING,
		CRITICAL THINKING, COLLABORATION &
		COMMUNICATION)
Schools and school divisions use best practices	Online safety training	Communication with staff
that comply with federal, state, and industry	Digital citizenship	informing staff of potential
network threats and vulnerabilities and protect	AUP	(CREATIVE THINKING, CRITICAL
educational data.		THINKING, COLLABORATION,
		COMMUNICATION & CITIZENSHIP)
Students, educators, and leaders have equitable	I:1 Chromebook	1:1 Chromebook initiative
access to computing devices and other digital resources including assistive rechnologies	initiative or devices needed for	(CREATIVE THINKING, CRITICAL THINKING COLI ABORATION
	differentiation	COMMUNICATION &
		CITIZENSHIP)
School divisions have access to technical and	 Meeting agendas 	Technology Meetings
numan resources that enable the effective		TTRT Meetings
cvariation of fillings under costs and outer considerations necessary for high quality and		 I:1 Initiative Meetings Parent Trainings
reliable access to the Internet and other networks		 Davelonment of DRI enscer
used by students, educators, and leaders in		(CREATIVE THINKING, CRITICAL
innovative ways.		THINKING, COLLABORATION,
		COMMUNICATION &
		CITIZENSHIP)

Elementary - Goal 5 (2018-2020); Assessment

Results	Indicators	Actions or Evaluations
Educators will use assessment data to	SOL results	Data Tracking Spreadsheet
support learning.	 IA – PowerSchool Analytics & 	 Student profile analyze to
	Assessment	individualize instruction
	 AR, VMATH and other similar 	(CREATIVE THINKING, CRITICAL
	programs	THINKING, COLLABORATION, & COMMUNICATION)
Educators will transform assessment	1:1 Chromebook initiative, G-	Completion of 1:1 Chromebook
through the use of technology.	Suite & Age appropriate	initiative
	curriculum by instructional staff	(CREATIVE THINKING, CRITICAL
	such as laptops, tablets,	THINKING, COLLABORATION, &
	DASH/DRONES & other	COMMUNICATION)
	devices as they become	
	available	
Educators will use data effectively and	SOL results	Data Tracking Spreadsheet
appropriately.	 IA – PowerSchool Analytics & 	 Student profile analyze to
	Assessment	individualize instruction
	AR VMATH and other similar	(CREATIVE THINKING, CRITICAL
	programs	THINKING, COLLABORATION, & COMMUNICATION)

Appendix I: Chromebook Information

Google Device Auto-Update Expiration Dates

Product	Auto Update Expiration date
Chromebook 11 (3120) *	Jun 2020
Chromebook 11 (3180) *	Feb 2022
Chromebook 11 (5190)	Nov 2023
Chromebook 11 2-in-1 (3189)	Feb 2022
Chromebook 11 2-in-1 (5190)	Nov 2023
Chromebook 13 (7310)	Sep 2020
Chromebook 13 (3380)	Nov 2022

*Used by ACPS.

December 12, 2018

	Budget	Budget	Budget	Budget	Budget	Budget	Budget
	2018-19	2019-20	2020-21	2021-22	2022-23	2023-2024	2024-2025
Revenues							
Fund 2-Textbooks Beginning Year Balance	\$862,259	\$599,854	\$414,382	\$439,763	\$391,211	\$403,459	\$405,468
Projected State Funding/Required Local Match	\$214,769	\$206,863	\$198,958	\$191,052	\$183,146	\$183,146	\$183,146
Projected Interest Earnings @ 0.9%	<u>\$776</u>	<u>\$540</u>	<u>\$373</u>	<u>\$396</u>	<u> \$352</u>	\$363.11	\$364.92
Total Revenues	\$1,077,804	\$807,257	\$613,713	\$631,211	\$574,709	\$586,968	\$588,979
Expenditures							
Textbook Purchases - Social Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$108 ,1 86
Textbook Purchases - Mathematics	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Textbook Purchases - English	\$0	\$294,900	\$0	\$0	\$0	\$0	\$0
Textbook Purchases - Fine Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Textbook Purchases - Foreign Language	\$0	\$0	\$0	\$0	\$49,500	\$0	\$0
Textbook Purchases - Health/PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Textbook Purchases - Science	\$210,100	\$0	\$0	\$0	\$0	\$0	Ş
Textbook Replacements/Consumables	<u>\$18,500</u>	<u>\$20,000</u>	<u>\$20,000</u>	<u>\$20,000</u>	<u>\$20,000</u>	\$20,000	\$20,000
Total Expenditures	\$228,600	\$314,900	\$20,000	\$20,000	\$69,500	\$20,000	\$128,186
Fund 2-Textbooks Ending Balance	<u>5849,204</u>	<u>\$492,357</u>	<u>\$593,713</u>	<u>\$611,211</u>	<u>\$505,209</u>	\$566,968	\$460,793
Less: One-to-One Device Purchases	(\$379,350)	(\$207.975)	(\$283.950)	(\$350.000)	(\$231.750)	(\$291.500)	(\$350.000)
Add: VPSA Technology Funds Allocation	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000
Fund 2-Textbooks 1:1 Revised Balance	<u>\$599,854</u>	<u>\$414,382</u>	<u>\$439,763</u>	<u>5391,211</u>	<u>\$403,459</u>	\$405,468	\$240,793

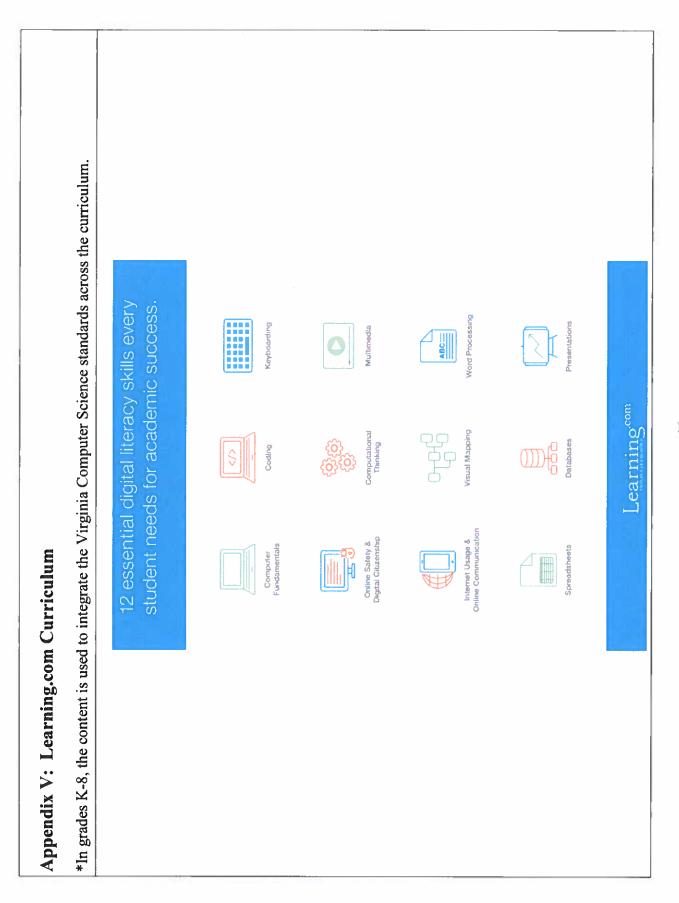
Appendix III: 2018-2019 Technology Department Budget

01-8100-200-3320-370-141	PURCHASED SERVICES/SERVICE CONTRACT	\$53,347
01-8100-200-3801-370-100	TECHNOLOGY SERVICES	\$0
01-8100-200-6000-100-000	TECHNOLOGY SUPPLIES	\$12,775
01-8100-200-6040-370-141	TECHNOLOGY SOFTWARE/LOCAL	\$12,775
01-8100-200-6040-370-142	TECHNOLOGY SOFTWARE/STATE	0\$
01-8100-200-6050-370-141	NON-CAPITAL TECH HARDWARE/LOCAL	\$0
01-8100-200-6050-370-142	NON-CAPITAL TECHHARDWARE/STATE	\$115,000
01-8100-200-8110-100-141	TECHNOLOGY CAPITAL REPLACE/LOCAL	0\$
01-8100-200-8110-100-142	TECHNOLOGY CAPITAL REPLACE/STATE	0\$
01-8100-200-8201-370-141	TECHNOLOGY CAPITAL ADDITION/LOCAL	\$0
01-8100-200-8201-370-142	TECHNOLOGY CAPITAL ADDITION/STATE	\$0
01-8100-300-3320-370-141	PURCHASED SERVICES/SERVICE CONTRACT	\$37,475
01-8100-300-3801-370-100	TECHNOLOGY SERVICES	\$0
01-8100-300-6000-100-000	TECHNOLOGY SUPPLIES	\$12,775
01-8100-300-6040-370-141	TECHNOLOGY SOFTWARE/LOCAL	\$12,775
01-8100-300-6040-370-142	TECHNOLOGY SOFTWARE/STATE	\$0
01-8100-300-6050-370-141	NON-CAPITAL TECH HARDWARE/LOCAL	\$0
01-8100-300-6050-370-142	NON-CAPITAL TECH HARDWARE/STATE	\$115,000
01-8100-300-8110-100-141	TECHNOLOGY CAPITAL REPLACE/LOCAL	0\$
01-8100-300-8110-100-142	TECHNOLOGY CAPITAL REPLACE/STATE	\$0
01-8100-300-8201-370-141	TECHNOLOGY CAPITAL ADDITION/LOCAL	0\$
01-8100-300-8201-370-142	TECHNOLOGY CAPITAL ADDITION/STATE	\$0
01-8100-901-1200-370-000	OVERTIME/TECHNOLOGY	\$1,200
01-8100-901-3000-370-141	PURCHASED SERVICES/LOCAL	\$0
01-8100-901-3000-370-142	PURCHASED SERVICES/STATE	\$0
01-8100-901-3320-370-141	PURCHASED SERVICES/SERVICE CONTRACT	\$2,330
01-8100-901-5500-370-000	TRAVEL	0\$
01-8100-901-6000-100-000	TECHNOLOGY SUPPLIES	\$4,088
01-8100-901-6040-370-141	TECHNOLOGY SOFTWARE/LOCAL	\$0
01-8100-901-6040-370-142	TECHNOLOGY SOFTWARE/STATE	\$
01-8100-901-6050-370-141	NON-CAPITAL TECHNOLOGY HARDWARE/LOCA	\$15,560
01-8100-901-6050-370-142	NON-CAPITAL TECHNOLOGY HARDWARE/STAT	\$0
01-8100-901-6060-370-141	NON-CAPITAL TECHNOLOGY INFRASTRUCT/LO	\$0
01-8100-901-6060-370-142	NON-CAPITAL TECHNOLOGY INFRASTRUCT/ST	\$0
01-8100-901-8110-100-141	TECHNOLOGY CAPITAL REPLACE/LOCAL	\$0
01-8100-901-8110-100-142	TECHNOLOGY CAPITAL REPLACE/STATE	\$0
01-8100-901-8201-370-141	TECHNOLOGY CAPITAL ADDITION/LOCAL	₽
01-8100-901-8201-370-142	TECHNOLOGY CAPITAL ADDITION/STATE	멂
	TOTAL TECHNIC OCV	±395 100

Appendix IV: 2018-2019 Balances; Virginia Public Schools Authority Notes (VPSA Funds) *Non-capital Technology Hardware

VPSA Balances - Alleghany County (Division 003) As of October 31, 2018

Base Grant	\$0	\$0	\$0	\$221,172.22	\$230,000.00
	Series XIV	Series XV	Series XVI	Series XVII	Series XVIII



APPENDIX VI: GUIDE TO EASYTECH ONLINE SAFETY CURRICULUM

A complete list of the objectives for each curriculum item is available on the curriculum item detail tab.

EasyTech Online Safety Curriculum K-2

ITEM TITLE		
Internet Usage: Research, Resources, and Ethics	Lesson	15
Internet Usage: Safe and Effective Online Searches	Lesson	15
Netiquette and Cyber Bullying Discussion	Discussion	30
Online Safety: Cyberbullying	Lesson	15
Open Communication Basics Discussion	Discussion	30
Safe Site Strategies	Discussion	30
Summer Online Safety Poster	Application Exercise	40
Texting Safety Discussion	Discussion	30
EasyTech Online Safety Curriculum 3-5		

ITEM TITLE Accentable Use Policies	Discussion	30
Better Safe than Sorry	Application Exercise	45
Computer Rules Skit	Application Exercise	60

ITEM TITLE	TRANS INC.	
Email Basics Unit Quiz	Quiz	15
Have Fun, Keep Safe: Filters and Firewalls	Application Exercise	45
Healthy Computing Discussion	Discussion	30
How Would You Feel?	Application Exercise	45
Identity Theft Basics Discussion	Discussion	15
Inappropriate Content Discussion	Discussion	30
Internet Usage: Research, Resources, and Ethics	Lesson	15
Internet Usage: Safe and Effective Online Searches	Lesson	15
Netiquette Discussion	Discussion	15
Online Communication: Sharing on a Community Site	Lesson	15
Online Communications: Communicating with Instant Messaging	Lesson	15
Online Communications: Reading and Writing Blogs	Lesson	15
Online Communications: Responding to Email Messages	Lesson	80
Online Communications: Sending Email Messages	Lesson	12
Online Safety: Communicating Online and Cyberbullying	Lesson	15
Online Status Message Basics Discussion	Discussion	30
Practicing Online Safety	Application Exercise	06
Safekeeping Personal Information Discussion	Discussion	30

ITEM TITLE	1474 6711	
Safety Through Open Communication Discussion	Discussion	30
Smart Alert! Cyber Bullying Guide	Application Exercise	45
Summer Online Safety Brochure	Application Exercise	06
Texting Safety Discussion	Discussion	30
Think Before You Text	Application Exercise	45
EasyTech Online Safety Curriculum 6-8		
Texting Safety Discussion	Discussion	30
Think Before You Text	Application Exercise	45
Online Safety: Digital Citizenship	Lesson	15
Be Cyber Safe	Application Exercise	45
What's Private	Application Exercise	06
Don't Even Go There!	Application Exercise	45
Halt! Who Goes There? Avoiding Online Creeps	Application Exercise	45
Move It – Don't Lose It!	Application Exercise	120
Be an Open Book	Application Exercise	45
You Can't Scam Me	Application Exercise	45

Risk Watch!	Application Exercise	35
Have Fun, Keep Safe: Filters and Firewalls	Application Exercise	45
Online Status Messages Discussion	Discussion	30
Understanding Identity Theft Discussion	Discussion	15
Online Safety: Dealing with Cyberbullying	Lesson	15
The Bystander Effect	Application Exercise	80
Cyber Bullying Case Study: Beyond the Victim	Application Exercise	06
Take Two: Recognize and Report Cyber Bullying	Application Exercise	45
Get the Word Out	Application Exercise	45
Online Ethics	Discussion	45
Online Safety: Ethical Use of Digital Resources	Lesson	15
Ethics and Consequences	Application Exercise	45
Digital Citizenship Quiz	Quiz	15
Share and Tell	Application Exercise	45
Internet Usage: Validity and Sourcing	Lesson	20
What a Cite! APA	Application Exercise	45
What a Cite! MLA	Application Exercise	45
Internet Usage: Navigating the World Wide Web	Lesson	15

Online Communications: Online Personal Communication	Lesson	15
Internet Usage: Effective Search Strategies	Lesson	15
Online Communication: Sharing Safely Online	Lesson	15
Online Communication: Sharing and Collaborating Online	Lesson	15
Internet Usage: Being a Global Citizen with Mapping Tools	Lesson	15
Healthy Computing Discussion	Discussion	30
Summer Online Safety Presentation	Application Exercise	90
Summer Online Safety PSA	Application Exercise	120

EasyTech Online Safety Curriculum for Teachers & Parents

	10	2	45	30
	Weblink	Activity	Application Exercise	Activity
	EasyTech online Safety Guide for Teachers	Focus on Cyber Bullying Prevention	Copyright in the Classroom – Fair Use	What Really Puts Your Students At Risk Online
•	Teachers			

Parents

LEGHANY county public schools

Netsmartz Safety Curriculum

100 Central Circle P.O. Drawer 140 Low Moor, Virginia 24457 540/863-1809 540/863-1804 (fax)

www.alleghany.k12.va.us

Introduction

on education and that it has the potential to positively impact a student's academic achievement. Additionally, The instructional staff of Alleghany County Public Schools believes that the Internet has a profound influence instructional staff recognizes that students tend to adopt new technologies quickly and that many of them do interactive and that it has expanded communication possibilities beyond the written word. Furthermore, the believes that parents, educators, and community members must encourage students to take advantage of not have the experience or knowledge to understand the potential risks. Therefore, the instructional staff the instructional staff acknowledges that the high-speed Internet has made the World Wide Web more the Internet's benefits while reducing its risks.

component and the division maintains current filtering software in an effort to reduce the risks associated with Internet use. In addition, a program for integrating Internet safety had been developed and infused into the Alleghany County Public Schools has an Internet acceptable use policy that contains an Internet safety core curriculum. The goal of these efforts is to help protect young people from online dangers.

Acceptable Use Policy, discuss techniques for evaluating information from Web pages, review the potential dangers of using Web pages or e-mail for communication, and note proper precautions to take as well as a This document contains the Alleghany County Public Schools Internet Safety Curriculum for grades K-12. appropriate steps to take if they encounter a problem by infusing age-appropriate lessons into the core curriculum. The overall goal is to help students internalize these messages by constantly repeating the When students use the Internet in the classroom, teachers remind students of the rules outlined in the cybersafety elements.

Adapted from the Virginia Department of Education Guidelines and Resources for Internet Safety in Schools and Ideas for Integrating Internet Safety into the Curriculum

Overview

includes the methodology, resources for the instructional staff, and related standards of learning. The second section contains an overview of the complete K-12 curriculum. The third and final section includes a detailed This document is divided into three sections. The first section outlines the teacher training component which description of the grade-by-grade Internet Safety Curriculum.

	Teacher Training Components	
Methodology	Resources	Related Standards of Learning
 All teachers attend in in-service by TTRT on Internet safety for general content knowledge 	 The Virginia Department of Education's Internet Safety page 	 CyberSmart's alignment of Virginia K-8 Sol's and Internet Safety
 All teachers may request one-on- one instructional support from TTRT on grade level specific 	<u>www.netsmartz.org</u>	 C/T K-2.1, 2.2, 2.3, 2.4, 2.7
curriculum content	Virginia Technology Standards for Students and Instructional	• C/T 3-5.3, 5.4
 All teachers review and sign the Acceptable Use Policy and 	Personnel	 C/T 6.8.3 (a,b), 8.4 (a,b), 8.5 (a,b)
review the appropriate components with their students	i Safa oro	 C/T 9-12.3, 12.4, 12.6, 12.7
 All teachers are required to document Internet safety instruction in their daily lesson plan books 	 CyberSmart Curriculum 	
 All teachers are trained in the use of the NetSmartz.org curriculum as it relates to the core curriculum 		
 All teachers are encouraged to make use of teachable moments as they relate to Internet safety 		

GRADE GOAL TOPIC OBJE CTIVES Krow the Rules Check First Recognize the need to check with parent or other trusted adult before going anyonne. Kr2 Know the Rules Check First Recognize the meed to check with parent or other trusted adult before going anyonne. Kr2 Know the Rules Take a Friend Recognize the importance of taking a friend when going places or playing outside anyonne. Kr2 Know the Rules Tell People 'No' Understand what to do if someone tries to touch them in ways that make them for arrent for the Rules Kr2 Know the Rules Tell a Trusted Adult Recognize the need to tell a parent, guardian or other trusted adult if anything Kr2 Know the Rules Tell a Trusted Adult Recognize the need to tell a parent, guardian or other trusted adult if anything Kr2 Develop Internet Chat Abbreviation Recognize the need to tell a parent, guardian or other trusted adult if anything Kr2 Develop Internet Chat Abbreviation Recognize the need to tell a parent, guardian or other trusted adult if anything Kr2 Develop Internet Chat Abbreviation Recognize the need to tell a parent, guardian or other trusted adult if anything Kr2 Develop Internet			Curric G	Curriculum Overview Grades K-2
Know the RulesCheck FirstKnow the RulesTake a FriendKnow the RulesTell People "No"Know the RulesTell a Trusted AdultKnow the RulesTell a Trusted AdultBevelop InternetChat AbbreviationDevelop InternetChat AbbreviationAwarenessChat AbbreviationDevelop InternetChat AbbreviationDevelop InternetChat AbbreviationAwarenessChat AbbreviationDevelop InternetChat AbbreviationAwarenessChat AbbreviationDevelop InternetChat AbbreviationAwarenessChat AbbreviationDevelop InternetChat AbbreviationAwarenessUnderstand the WorldUnderstand the WorldWorld Wide WebUnderstand the WorldWebUnderstand the WorldWeb	GRADE	GOAL	TOPIC	OBJECTIVES
Know the RulesTake a FriendKnow the RulesTell People "No"Know the RulesTell a Trusted AdultEvelop InternetChat AbbreviationDevelop InternetNatarenessDevelop InternetInstant MessagingDevelop InternetUnderstand the WorldDevelop InternetViruses Damage ComputersDevelop InternetViruses Damage ComputersUnderstand the WorldWorld Wide WebUnderstand the WorldWebUnderstand the WorldWebUnderstand the WorldWeb	K-2	Know the Rules	Check First	Recognize the need to check with parent or other trusted adult before going anywhere, helping anyone, accepting anything, getting into a car, or leaving with anyone.
Know the RulesTell People "No"Know the RulesTell a Trusted AdultKnow the RulesTell a Trusted AdultDevelop InternetChat AbbreviationDevelop InternetChat AbbreviationAwarenessChat AbbreviationDevelop InternetInstant MessagingAwarenessNorld Wide WebUnderstand the WorldWorld Wide WebUnderstand the WorldDangers of the World WideUnderstand the WorldDangers of the World	K-2	Know the Rules	Take a Friend	Recognize the importance of taking a friend when going places or playing outside.
Know the RulesTell a Trusted AdultDevelop InternetChat AbbreviationDevelop InternetChat AbbreviationDevelop InternetChat AbbreviationDevelop InternetChat AbbreviationAwarenessChat AbbreviationDevelop InternetInstant MessagingAwarenessInstant MessagingDevelop InternetViruses Damage ComputersAwarenessViruses Damage ComputersUnderstand the WorldWorld Wide WebUnderstand the WorldWorld Wide WebUnderstand the WorldDangers of the World WideUnderstand the WorldWebUnderstand the WorldWeb	K-2	Know the Rules	Tell People "No"	Understand what to do if someone tries to touch them in ways that make them feel scared, uncomfortable, or confused.
Develop Internet AwarenessChat AbbreviationDevelop Internet AwarenessChat AbbreviationDevelop Internet AwarenessChat AbbreviationDevelop Internet AwarenessInstant MessagingDevelop Internet AwarenessInstant MessagingDevelop Internet AwarenessViruses Damage ComputersUnderstand the World 	K-2	Know the Rules	Tell a Trusted Adult	Recognize the need to tell a parent, guardian or other trusted adult if anything happens to them.
Develop Internet AwarenessChat AbbreviationDevelop Internet AwarenessInstant MessagingDevelop Internet AwarenessInstant MessagingDevelop Internet AwarenessViruses Damage ComputersUnderstand the World Wide WebWorld Wide WebUnderstand the World Wide WebDangers of the World WideUnderstand the World Wide WebDangers of the World WideUnderstand the World Wide WebDangers of the World WideUnderstand the World Wide WebDangers of the World Wide	K-2	Develop Internet Awareness	Chat Abbreviation	Recognize the need to be Net smart
Develop Internet AwarenessInstant MessagingDevelop Internet AwarenessViruses Damage ComputersUnderstand the World Wide WebWorld Wide WebUnderstand the World 	K-2	Develop Internet Awareness	Chat Abbreviation	Recognize the need to be Net smart in various situations
Develop Internet AwarenessViruses Damage ComputersUnderstand the World Wide WebWorld Wide WebUnderstand the World Wide WebDangers of the World WideUnderstand the World 	K-2	Develop Internet Awareness	Instant Messaging	Recognize the dangers of sharing personal information online
Understand the WorldWorld Wide WebWide WebWorld Wide WebUnderstand the WorldDangers of the World WideWide WebWebUnderstand the WorldDangers of the World WideWide WebWeb	K-2	Develop Internet Awareness	Viruses Damage Computers	Recognize how viruses are spread and how they can damage computers
Understand the World Dangers of the World Wide Wide Web Understand the World Dangers of the World Wide Wide Web	K-2	Understand the World Wide Web	World Wide Web	Recognize that the World Wide Web connects us from person to person by comparing it to a spider web
Understand the World Dangers of the World Wide Web	K-2	Understand the World Wide Web	Dangers of the World Wide Web	Recognize the potential dangers associated with the World Wide Web
	K-2	Understand the World Wide Web	Dangers of the World Wide Web	Recognize the potential dangers on the Internet

		Curric	Curriculum Overview Grades 3-4
GRADE	GOAL	TOPIC	OBJECTIVES
3-4	Know the Rules	Check First	Recognize the need to check with parent or other trusted adult before going anywhere, helping anyone, accepting anything, getting into a car, or leaving with anyone.
3-4	Know the Rules	Take a Friend	Recognize the importance of taking a friend when going places or playing outside.
3-4	Know the Rules	Tell People "No"	Understand what to do if someone tries to touch them in ways that make them feel scared, uncomfortable, or confused.
3-4	Know the Rules	Tell a Trusted Adult	Recognize the need to tell a parent, guardian, or other trusted adult if anything happens to them
3-4	Develop Internet Awareness	Chat Abbreviation	Recognize the need to be Net smart
3-4	Develop Internet Awareness	Instant Messaging	Recognize the dangers associated with sharing personal information online
3-4	Develop Internet Awareness	Computer Viruses	Recognize what a computer virus is, how they spread from computer to computer, and how they can damage computers
3-4	Develop Internet Awareness	Passwords	Recognize how passwords work and how important it is to have a password that no one can guess
3-4	Develop Internet Awareness	Passwords	Understand the concept of non-identifying information and how to create a good password
3-4	Develop Internet Awareness	Passwords	Develop strategies for creating strong passwords and review the importance of keeping a password private
3-4	Understand the World Wide Web	Internet Dangers	Recognize dangers on the Internet
3-4	Understand the World Wide Web	Internet Dangers	Reinforce the ability to recognize dangers on the Internet
3-4	Understand the World Wide Web	Internet Dangers	Recognize that people are not always who they say they are on the Internet and identify personal information that should not be shared on the Internet

		Curric	Curriculum Overview Grades 5-6
GRADE	GOAL	TOPIC	OBJECTIVES
5-6	Know the Rules	Check First	Recognize the need to check with parent or other trusted adult before going anywhere, helping anyone, accepting anything, getting into a car, or leaving with anyone.
5-6	Know the Rules	Take a Friend	Recognize the importance of taking a friend when going places or playing outside.
5-6	Know the Rules	Tell People "No"	Understand what to do if someone tries to touch them in ways that make them feel scared, uncomfortable, or confused.
5-6	Know the Rules	Tell a Trusted Adult	Recognize the need to tell a parent, guardian, or other trusted adult if anything happens to them
5-6	Develop Internet Awareness	Chat Abbreviations	Review the basic Internet safety rules
5-6	Develop internet Awareness	Instant Messaging	Recognize how difficult it is to tell when someone is misrepresenting themselves online
5-6	Develop Internet Awareness	Viruses	Recognize how viruses can affect their computer and how easy it is for a virus to spread
5-6	Understand the World Wide Web	Internet Dangers	Recognize possible dangers on the Internet
5-6	Understand the World Wide Web	Internet Dangers	Recognize that people are not always who they say they are on the Internet
5-6	Understand the World Wide Web	Internet Dangers	Identify safe and unsafe online behaviors
5-6	Understand the World Wide Web	Online Information	Distinguish between appropriate and inappropriate information to share online
5-6	Understand the World Wide Web	Social Networking	Identify rules that should be followed when adding "friends" on social networking sites
5-Q	Understand the World Wide Web	Cyberbullying	Identify the various forms of Cyberbullying, their effects and consequences

		Grades 9-12	Grades 9-12
GRADE	GOAL	TOPIC	OBJECTIVES
9-12 [Develop Internet Awareness	Personal Information	Recognize how to avoid the negative consequences associated with giving out personal information and the need to maintain privacy on the Internet
9-12 ^L	Understand the World Wide Web	Cyberbullying	Recognize the consequences of giving out a password to anyone other than parents or guardians
9-12 [[]	Understand the World Wide Web	Cyberbullying	Recognize the positive and negative aspects of sharing information on the Internet
9-12	Understand the World Wide Web	Online Acquaintances	Recognize the consequences of meeting an unknown person who was met on the Internet and the importance of communicating with a trusted adult

Internet Safety Curriculum Detail

Grades K-5

and other Internet safety resources. It offers opportunities for teachers to incorporate internet safety as they teach curriculum includes the Virginia Department of Education Internet Safety Guidelines, ACPS curriculum materials, At the elementary level, Internet safety can be condensed into four general categories which encompass the NetSmartz goals and topics in the Curriculum Overview, and align with Virginia SOLs where indicated. This content relating to a variety of SOLs.

Revisions: re-linked, updated links, additions

Introduction to the Internet

Computer Rules & Ethics

- Follow the Rules
- Character Counts
- Property Rights (intellectual property, viruses)

Personal Safety

- Protect Identity/Passwords
 - Social Networking
 - Cyberbuilying
 - Gaming

Online Safety Strategies

- Problem-solving strategies
- Identify helpful resources
- Peer-pressure strategies
- Strategies for handling conflict

Media & Information Literacy

- Separate fact from fiction
 - Evaluate websites
 - Propaganda
- Recognize commercial intentions

All Elementary Grades

SOL Lessons/Ideas from Netsmartz & Other Resources	Computer Rules & Ethics	C/T K-2.3 Follow the district's Acceptable Use Policy; practice safety rules C/T 3-5.4 everywhere, including on the computer; obey rules posted in the classroom	Discuss at the beginning of the school year when students return signed AUP AUP Agreement on the ACPS website It refers to this policy in Policy Manual: Acceptable Computer System Use	Internet Safety Rules & Pledges (Primary/Intermediate) Download video: Know the Rules Kidsmart: Being Smart Rules	Post and discuss rules pertaining to use of library computers. Limit to kid-friendly search engines and stress Internet safety rules.	Exhibit the 6 pillars of character when interacting on computers; be a good netcitizen; respect others when communicating electronically	Discuss responsibility, trustworthiness, caring, respect, fairness, citizenship in relation to school/class/Internet rules
Content Area 2	Compt	C/T K-2.3 C/T 3-5.4		All	Lib Media		All: Character Counts
Internet Safety Elements/Standards*		Follow the Rules	AUP (Acceptable Use Policy)	Internet rules when using classroom computers	Internet rules when using library computers	Character Counts	
Grade Level	A CARDINA		K-5	K-5	K-5		K-5

Grades K-2

An Introduction to the Internet can be added for younger students

L

K-2 Going Places Safely http://www.commonsensemedia.org/educators/lesson/going-places-safely-k-2 A K-2 My Online Neighborhood virtual field trip helps children experience the power and excitement of the Internet K-2 My Online Neighborhood Students explore the concept of cyberspace as a means of connecting people and explain how the ability to communicate can unite a neighborhood or community. My Online Community My Online Community My Online Community Lesson video: What is the Internet?		Introdu	Introduction to the Internet
My Online Neighborhood My Online Community	K-2	Going Places Safely	http://www.commonsensemedia.org/educators/lesson/going-places-safely-k-2 A
My Online Neighborhood My Online Community			virtual field trip helps children experience the power and excitement of the Internet
	K-2	My Online Neighborhood	
			Students explore the concept of cyberspace as a means of connecting people and
			explain how the ability to communicate can unite a neighborhood or community.
			My Online Community
My Online Community			Lesson video: What is the Internet?
		My Online Community	

Grade	Internet Safety Elements Standards*	Content Area	SOL	Lessons/Ideas from Netsmartz & Other Resources
			Computer Rules & Ethics	es & Ethics
	Follow the Rules		С/Т К-2.3	Follow the district's Acceptable Use Policy; practice safety rules everywhere, even on the computer; obey rules posted in the classroom
×	Good citizen: follow rules and understand consequences of breaking rules	History: Civics	K.8	When showing them websites, mention that when they get on the Internet when they're older, they must have an adult with them
×	Need for nules/practices	Health-PE	K.3	Include Internet rules when discussing school rules
K-3	Respect for rules/laws	Guidance	EP1 (K-3)	Include Internet rules when discussing school rules
	Know the Rules: Check First			Netsmartz <u>Activity Card (Primary lesson plan)</u> : (scroll down to <i>Know the Rules</i> to download) Students watch the <u>"Know the Rules"</u> rap video. They discuss checking first with a parent, guardian, or another trusted adult before going anywhere, helping anyone, accepting anything, getting into a car, or leaving with anyone.
K	Participate in creative dramatics	English-Oral Language	K.1	Students practice what was discussed through teacher-guided group skits.
7	Create and participate in oral dramatic activities	0	2.1	Students create their own Internet Safety skit with teacher assistance
1	Expand and use listening and speaking vocabularies	English-Oral Language	1.2	Check the Key Vocabulary in CommonSense Media lessons
-	Good citizenship: recognize purpose of rules & practice self-control	History/Social Science: Civics	1.10	
K-2	Know the Rules: Take a Friend			Netsmartz Activity Card (Primary lesson plan): (scroll down to <i>Take a Friend</i> to download) Students watch the "Know the Rules" rap video and discuss the importance of taking a friend with them when going places or playing outside.
2	Demonstrate map skills by constructing simple maps, using title, map legend, and compass rose	Geography	2.6	Students make maps of their neighborhoods and highlight a path to a favorite play area where they would take a friend with them to be safer.
	Character Counts		Exhibit the 6 p when commun	Exhibit the 6 pillars of character when interacting on computers; be a good netcitizen; respect others when communicating electronically
K-3	Exhibit principles of character (honesty, trustworthiness, respects others' rights and property, fairness, caring, citizenship, responsibility for actions)	Guidance	EPI	Stress that character is important when dealing with people and materials on the Internet

Grade	Internet Safety Elements/Standards*	Content Area	SOL	Lessons/Ideas from Netsmartz & Other Resources
-	Demonstrate responsible behavior (respect for others, acceptance of responsibility)	PE/Health	9'1	When discussing responsible behavior and respect, mention respect for people you can't see (on the telephone, on the computer) and responsible behavior on the computer
2	Good citizenship: take responsibility for one's own actions	History/Social Science: Civics	2.10	Explain the responsibilities of a good (net) citizen (Digital Citizenship). Have students write a short story about cybercitizenship on <u>Storybird</u> .
2-3	Respect rights of others while using computers	All		CommonSense Media lesson: <u>Show Respect Online</u> Students discuss good manners in the real world and learn some do's and don'ts when using E-mail in cyberspace. Respectful behavior when sending online messages (email)
Primary	Netiquette			Students learn the definition of netiquette and discuss the importance of having good manners online.
	Property Rights		СЛ К-2.3 СЛ К-2.4	Respect other peoples' computers; don't do anything to damage them, either physically or internally (e.g., downloading an email containing viruses, or a program containing spyware); also respect intellectual property rights (no pirating software or plagiarizing); give credit to sources of information (citations/bibliographies)
K-2	Give credit for creative work			CommonSense Media: <u>My Creative Work</u> Students learn the basics for crediting creative work
K-2	Combat spread of viruses			Students discuss computer viruses by relating them to germs that spread between humans, using a "hands-on" activity to demonstrate this point.
2	Respect and protect the rights and property of others	History/Social Science: Civics	2.10	Don't copy something from the internet and paste it to something on your computer without saying where you got it (copy and paste the URL too!)
2-3	e-Safety: Logo Design & Copyright			

L Lessons/Ideas from Netsmartz & Other Resources	Personal Safety	2.3 Information that is shared online-even with a friendcan find its way to strangers who might do you harm. Not giving out personal information and using passwords are ways to protect yourself.	Play (or read to younger children) Safety Land game	CommonSense Media lesson: Keep it Private Students learn that many websites ask for information that is private and discuss how to responsibly handle such requests.	While co-writing a story online (<u>Storybird</u>), students learn an important safety rule: Before sharing private information in cyberspace, they must get permission from a parent or teacher.	MediaSmarts: <u>Privacy Pirates</u> : introduces children to the concept of online privacy and teaches them to distinguish between information that is appropriate to give out and information better kept private; interactive game	CommonSense Media: <u>Powerful Passwords</u> : students learn password tips, create their own passwords, test them with an interactive game	Phishing means that someone is trying to play tricks on you to get your personal information from you, usually through email. Don't share your email password with anyone except your parents	Students follow the digital information trails of two fictional animals. They make observations about the size and content of each trail, and connect these observations by thinking critically about what kinds of information they want to leave behind.	E-mailing, IM-ing, online gaming, chatting, and other ways of making and keeping up with friends online can be a lot of fun—but you have to be careful of people you have never actually met who may misrepresent themselves. Even people you know can use online communications to harass or bully you.	You wouldn't talk to someone on the street that you don't know, and you shouldn't chat or respond to an instant message from someone that you don't know without asking your parents or another trusted adult.	Puppet show: an unseen person pretends to be someone else And/or what can be done with digital images (yours and someone else's)? They can be altered to look like someone or something else	Review rules one needs to follow to stay safe on social network sites
Content Area SOL	Pe	C/T K-2.3			English: Writing 2.11								
Cybersafety Elements/Standards*		Protect Identity & Passwords	Do's and Don'ts of Online Information	Private identity information	Write stories, letters, and simple explanations; use available technology		Passwords	Don't share personal information or passwords	Digital Footprint	Social Networking	Beware online strangers	People who misrepresent themselves	Social Network sites
Grade			K-2	2-3			K-2	K-2	K-2		K-2	K-2	K-2

Grade	Cybersafety	Content Area	SOL	Lessons/Ideas from Netsmartz & Other Resources
Level	Elements/Standards*			
	Cyberbullying			Online harrassment
7	effects of verbal and nonverbal aggressive behavior	PE/Health	2.5a	Mention that this type of behavior can occur over the Internet or in email/IM
K-2				Cyberbullies send hurtful messages using the Internet or texting on cell phones to try to make other kids feel bad.
2-3	What can you do when someone is mean to you online?			Students learn that children sometimes can act like bullies when they are online. They explore what cyberbullying means and what they can do when they
K-2	e-Safety and Cyberbullying			Joe gets means texts about his brother

Grade	Cybersafety	Content Area	SOL	Lessons/Ideas from Netsmartz & Other Resources
Level	Elements/Standards*			
		U	Online Safe	Online Safety Strategies
	Problem-solving strategies			What should you do when you encounter a problem online? If you get to a website you know you shouldn't see? If a friendly person online pressures you to meet in person? If someone is bullying you? Some problems can be solved by just following the rules; some by strategies like just saying 'no'; others by knowing where to go and whom to ask
K-3	Precautions/steps/ strategies if a problem is encountered online	All		NetSmartz online game: <u>Clicky's Quest</u> (what to do when a 'web outlaw' is encountered) (what to do in various situations on the web: use your NetSmartz)
	Identify helpful resources			Knowing safe ways to search online and safe sites to visit, as well as adults you can turn to, can help prevent or solve online problems
K-2	Kid-friendly search engines	English	K.12	CommonSense Media: <u>A-B-C Searching</u> This idea uses safe-searching techniques with young children as part of a lesson on beginning sounds.
K-2	Knowledge of acceptable sites to visit			Help students by showing them how to find Web sites that are good for kids. You know that some sites are good for kids, but not all of them are safe places. If you get scared or worried by a Web site, just click "Back" or log off.
K-3	Identify resource people in school and community: how to seek their help	Guidance	EP6	Who you might ask/tell if you have a problem with people or websites on a computer
	Match simple descriptions of work people do with names of those jobs: community workers (teacher)	HSS: economics	K.6	Ways in which the teacher can help if you are having problems on the computer
K-2	Importance of seeking guidance from parents/trusted adults	PE/Health	K.5	Students discuss telling a parent, guardian, or other trusted adult if anything happens to them. Students post word cards of possible trusted adults and then draw pictures of their own trusted adults on a "Trust Tree."

Grade Level	Cybersafety Elements/Standards*	Content Area	SOL	Lessons/Ideas from Netsmartz & Other Resources
		W	edia/Inforr	Media/Information Literacy
	Separate fact from fiction			Unfortunately, not everything we read on the web is true. It's a long process to determine what is real and what is fiction or just someone's opinion. Practice and some evaluation techniques can help build the necessary skills. And you can always ask a trusted adult.
1	Fiction-nonfiction (starting K), distinguish between real and make- believe (people or information)	Library Media	1.1	Recognize information as real or not; characters, events in stories
	Evaluate websites			When students research on the Internet, they need to be reminded about how to evaluate Web sites for authenticity and factuality.
K-1	Web page evaluation			CommonSense Media lesson <u>Sites I Like</u> : Children explore and evaluate a children's Web site, concluding that people's opinions about the quality and usefulness of a site will vary. An extension of this lesson is for children to evaluate 2 websites using recommended criteria and happy faces.
1	Use simple reference materials	English-Reading	1.10	Participate in an online dictionary scavenger hunt: Internet safety can be addressed when students are using online resources for research or interactive sites for practicing other skills. Remind students that they must follow the division's Acceptable Use Policy; and not all web sites contain truthful and accurate information.
	Propaganda	100 miles		
2	Realize influence of print/electronic media	PE/Health	2.4	
	Recognize commercial intentions			
K-1	Recognizing Commercial Intentions			MediaSmarts: <u>CoCo's AdverSmarts</u> helps children recognize the marketing techniques used on commercial websites that target children.
2-3	Persuasive tactics (online ads)			CommonSense Media lesson: <u>Things for Sale</u> Students learn that some Web sites are advertising environments intended to promote good feelings about products.
2	Use oral language for different purposes: to inform, to persuade, and to entertain	English: Oral language	2.3	When helping students learn how to use oral language or how to write to inform, persuade, and entertain, point out how these techniques are often used on Web sites.

3-4
es
rad
ō

		0				1]	
Lessons/Ideas from Netsmartz & Other Resources	he Internet	Digital Passport for Kids App (Google &iTunes): earn a digital passport for online safety through games & lessons, including passwords, cyberbullying, and privacy.	s & Ethics	NetSmartz Activity card: Know the Rules: Take a Friend	Students watch the "Know the Rules" rap video. They discuss checking first with a parent, guardian, or another trusted adult before going anywhere, helping anyone, accepting anything, getting into a car, or leaving with anyone. Students make safety books to reinforce these concepts and take them home to show their parent or guardian.	3-6 Internet Safety Pledge (supplemental activity)	Exhibit the 6 pillars of character when interacting on computers; be a good netcitizen; respect others when communicating electronically	Common Sense Media lesson: <u>Rings of Responsibility</u> Students learn what it means to take on responsibilities in both their offline and online communities as a way to learn how to be good digital citizens.	Digital Citizenship Pledge: good online behavior	Common Sense Media lesson: <u>Super Digital Citizen</u> Students explore what it means to be responsible and respectful to their offline and online communities as a step toward learning how to be good digital citizens. Effective oral communications skills Have a group discussion on what it means to be a good digital citizen.	Respect other peoples' computers; don't do anything to damage them, either physically or internally (e.g., downloading an email containing viruses, or a program containing spyware); also respect intellectual property rights (no pirating software or plagiarizing); give credit to sources of information (citations/bibliographies)
SOL	Introduction to the Internet		Computer Rules & Ethics			3.10				4.1	C/T 3-5.3 C/T 3-5.5
Content Area	Int		Ö			Civics				English-Oral Language	
Internet Safety Elements/Standards*		Netsmartz: What you can do on the web		Follow the Rules		Safety rules	Explain purpose of rules and laws	Character Counts		Good digital citizenship	
Grade Level	1 27 10 10 10 10 10 10 10 10 10 10 10 10 10	3-4				3-4	ę	4		4č	4-5

Grade	Internet Safety	Content Area	SOL	Lessons/Ideas from Netsmartz & Other Resources
Level	Elements/Standards*			
	Property Rights		,	Common Sense Media lesson: <u>Whose Is it, Anyway?</u> Students discuss rules for respecting property of others, and that copying and representing their work as yours is called plagiarism.
3-4	Respect property of others (works of others)	Library Media	4.5	When taking notes or doing research, it is not acceptable for students to copy and paste sentences and paragraphs from online articles into a word processing document and turn it in as their own work.
4	Recognize the importance of expressing information in own words		С/Т 3-5.4	KidsHealth lesson: <u>KidSmart Music</u> Students about do's and don'ts of music downloading
		English: Writing	4.7	Write paragraphs on related topics
4-5	Plagiarism and Copyright			What is Plagiarism?
		English:media literacy SOLs	3.11 4.9 5.0	The difference between plagiarism and using one's own words; meaning and consequences of plagiarism
3-5	Identifying plagiarism	Library Media	3.1	Include bibliographic citation for information taken from Internet sources; remind students that this is part of copyright recognition
3	Identify components of a bibliographic record	50,17%		Students discuss what viruses are, how quickly they can spread, and how computer viruses can damage computers.
3-4	Spread of viruses			

SOL Lessons/Ideas from Netsmartz & Other Resources	Personal Safety	Information that is shared online-even with a friendcan find its way to strangers who might do you harm. Not giving out personal information and using passwords are ways to protect yourself.	Common Sense Media lesson: <u>Private and Personal Information</u> Students learn to think critically about the user information that some websites request or require. They learn the difference between private information and personal information, distinguishing what is safe and unsafe to share online.	Common Sense Media lesson: Privacy Rules	3.10 Write story, explanation, or report about what is safe to share online	Everything you post online combines to make your digital footprint. Remember that what you share with your friends may also be viewed by people you don't know. And once it's online, it could be there forever. So think before you post.	Students discuss the concept of non-identifying information and basic ideas for what makes up a good password.	Common Sense Media: <u>Strong Passwords</u> Students learn how to create secure passwords in order to protect their private information and accounts online	E-mailing, IM-ing, online gaming, chatting, and other ways of making and keeping up with friends online can be a lot of fun—but you have to be careful of people you have never actually met who may misrepresent themselves. Even people you know can use online communications to harass or bully vou.	Students learn how difficult it is to tell when someone is misrepresenting themselves online.	3.9 Write a paragraph describing some of the situations you may encounter online.
Content Area					English: Writing	C.					English: Writing
Cybersafety	Elettients/Standards.	Protect Identity & Passwords	Private identity information		Student will write stories, letters, simple explanations, and short reports across all content areas; use available technology	Your Digital Footprint	What makes a good password		Social Networking	Instant messaging/chat	Write descriptive paragraphs
Grade	FCVCI		3-5		34	4 4	3-4	3-5		34	

Grade	Cybersafety	Content Area	SOL	Lessons/Ideas from Netsmartz & Other Resources
Level	Elements/Standards*			
	Write paragraphs	English: Writing	4.7	
ц 4	Recognize dangers on the Internet			MediaSmarts Cybersense & Nonsense: <u>Second Adventure of the 3 CyberPigs</u> : three CyberPigs learn some important lessons about authenticating online information and observing rules of netiquette. They also learn how to distinguish between fact and opinion and how to recognize bias and harmful stereotyping in online content. As Les, Mo and Lil discover, "just because it's on the Internet, doesn't mean it's true
	Student will write stories, letters, simple explanations, and short reports across all content areas	English: Writing	3.10	Students write and illustrate a story about one of the CyberPigs.
4	Recognition of harmful or abusive relationships	PE/Health	4.2đ	Include these types of relationships online
4-5	Chat, messaging, email		C/T 3-5.5	Common Sense Media lesson: <u>Talking Safely Online</u> Students learn that the Internet is a great place to develop rewarding relationships. But they also learn not to reveal private information to a person they know only online
				Kidsmart: <u>Chat</u>
3.4	Cyberbullying			Online harassment
4	Identification of bullying and aggressive behavior	PE/Health	4.2b	Discuss this type of behavior when encountered over the Internet or in email/IM/texting
3-5				App: Professor Garfield-Cyberbullying
34	Get the facts on cyberbullying			
				Common Sense Media lesson: <u>The Power of Words</u> What should you do when someone uses mean or scary language on the Internet?
				Common Sense Media Lesson: <u>What's Cyberbullying?</u> Students learn the definition of cyberbullying and help the teacher fill in a Venn diagram that compares in-person bullying with cyberbullying. They then read a story of a student who is cyberbullied, identifying the players involved and how the target might feel.

Grade Level	Cybersafety Elements/Standards*	Content Area	SOL	Lessons/Ideas from Netsmartz & Other websites
)	Online Safety Strategies	strategies
	Problem-solving strategies			What should you do when you encounter a problem online? If you get to a website you know you shouldn't see? If a friendly person online pressures you to meet in person? If someone is bullying you? Some problems can be solved by just following the rules; some by strategies like just saying 'no'; others by knowing where to go and whom to ask
4-5	Strategies for handling conflict	Guidance	EP11 EP12	
3	Process of resolving conflicts peacefully	PE/Health	3.2b	Stress to students that there are ways to handle online conflict as well
4-5	Recognize when someone/something online makes you uncomfortable			When you're online you may come across material that makes you feel uncomfortable or upset—what can you do to protect yourself?
	Use of descriptive words in writing	English: Writing	4.7	Students consider some online scenarios and examine their personal comfort levels. They learn to recognize feelings of discomfort and responsibly manage their actions in cyberspace. Explore descriptive words for feelings.
	Identify helpful resources			Knowing safe ways to search online and safe sites to visit, as well as adults you can turn to, can help prevent or solve online problems
34 4	Safe searching online			Kidsmart: <u>Safe Searching</u> Be smart when searching online

Media/Information Literacy	Unfortunately, not everything we read on the web is true. It's a long process to determine what is real and what is fiction or just someone's opinion. Practice and some evaluation techniques can help build the necessary skills. And you can always ask a trusted adult.	Students can apply nonfiction reading skills to information on Web sites, especially when identifying the author's purpose or distinguishing between fact and opinion. App: Garfield Fact or Opinion MediaSmarts: 2 nd Adventure of the 3 Cyberpigs Distinguish between fact and opinion and recognize bias.	When students research on the Internet, they need to be reminded about how to evaluate Web sites for authenticity and factuality.	Students discuss criteria for rating informational websites, then apply the criteria by examining and scoring an assigned site. They compare their results, and learn that all websites are not equally good sources of information.	Lessons/Ideas from Netsmartz & Other websites		Cybersmart lesson: Students explore how some Web sites are designed as advertising environments to entertain visitors while promoting advertisers' brands and products. Common Sense Media lesson: <u>Advertising Detectives</u> Students learn to recognize five different kinds of online ads prevalent on children's sites. They learn how to distinguish advertising content from other content on a website. Common Sense Media lesson: <u>Selling Sterotypes</u> Students first watch and discuss a video of a little girl questioning why companies market boys' and girls' toys differently. Then they compare and contrast gender stereotypes portrayed in two LEGO® online activity zones.	
edia/Informat		3.6 4.5		4.6	SOL			
Me		English		English-Reading	Content Area			
	Separate fact from fiction	Fact-fiction	Evaluate websites	Evaluate & synthesize information Use available technology	Cybersafety Elements/Standards*	Recognize commercial intentions	Web advertising techniques	
	3-4	3-4		3-5	Grade Level		4-5	

Compare fact and opinion	English-Reading 4.5	4.5	Don't be fooled by free prizes! Before you enter a contest or give out any personal
Evaluate and synthesize information		4.6	intormation, ask a parent for fielp. Free prizes may be a trickly way of finding out where you live so companies can sell you their products.
Advertising stereotypes			

5-6
es S
ð
a'
ō

Grade	Internet Safety	Content Area	SOL	Lessons/Ideas from Netsmartz & Other Resources
revel	Elements/Standards		ameritar Dula	a 6 Ethica
	Follow the Rules		Follow the	E & LUILS Follow the district's Accentable Use Policy: mactice safety miles everywhere
				even on the computer; obey rules posted in the classroom
4-5	Acceptable Use Policy			Acceptable Use Policy (AUP) contracts encourage responsible behavior by students and staff and give administrators enforceable rules for acceptable use of school computers. Students will interpret and make inferences about their school's AUP.
5-6	Safety rules			NetSmartz Activity Card: Know the Rules: Take a Friend Student's watch the "Know the Rules" rap video and discuss the importance of taking a friend with them when going places or playing outside. Students read pretend headlines (situation cards) and
	Write letters	English: Writing	5.9	write or type a "Letter to the Editor" in response to the headlines.
5-6	Safety rules			NetSmartz Activity Card: Know the Rules-Check First Students watch the "Know the Rules" rap video. They discuss checking first with a parent, guardian, or another trusted adult before going anywhere, helping anyone, accepting anything, getting into a car, or leaving with anyone.
	Describe characteristics of poetry (rap lyrics?) Write for a variety of purposes	English: Reading Writing Poetry Music	5.5 5.8	Students create their own safety rap lyrics in groups or individually, with assigned strips of sentences they much include in the rap. If time permits, students present their raps to the class.
	Character Counts			Exhibit the 6 pillars of character when interacting on computers; be a good netcitizen; respect others when communicating electronically
4-5	Responsibilities and privileges of cyber citizens			Cybersmart lesson: Students learn that Internet users are citizens of a global community with the power to share ideas with people around the world.
			2.4.	Lesson in Action: Super Digital Citizen Students design their own superhero and create a digital comic in which their superhero helps others and spreads digital citizenship; download video by right- clicking on it and selecting "save video as" from dropdown menu
2				Online projects: http://www.ciese.org/nationalprojects.html

Grade	Internet Safety	Content Area	SOL	Lessons/Ideas from Netsmartz & Other Resources
Level	Elements/Standards*			
				http://www.globalschoolnet.org/expeditions/
4-5	Computer ethics			Cybersmart lesson: Do the Right Thing
				Students learn that they should apply the same ethical principles in cyberspace
				that guide them in face-to-face situations.
		English-Oral		Extension activity involves a mock trial.
		Language	5.3	Make planned oral presentations
			C/T 3-5.4	Respect other peoples' computers; don't do anything to damage them, either
	Property Rights		C/T 3-5.5	physically or internally (e.g., downloading an email containing viruses, or a
				program containing spyware); also respect intellectual property rights (no pirating
				software or plagiarizing); give credit to sources of information
		and the second		(citations/bibliographies)
4-5	Plagiarism and Copyright			Cybersmart lesson: Whose is it anyway? SEE 3-5 ABOVE
				Students learn that, although the Internet makes it very easy, copying others' work
	採			and presenting it as one's own is unethical. They also learn about circumstances in
				which it is permissible to copy others' work.
		English: Writing	4.7	Write paragraphs on related topics
5	Student will compile a bibliography on	Library Media	5.2	Bibliographic citations are ways of giving credit to an author for his/her work; this
	a given subject.			includes anything copied from the Internet (pictures, music, text, video, etc.)
5-6	Copyright			All Right to Copy? Lesson and video teach students about copyright, and how it
				impacts them as both users and creators.
5-6	Spread of viruses			NetSmartz UYN Activity card: Don't Open that File
				Students talk about how viruses can affect their computer, and play a
				group activity called "The Virus" to demonstrate how viruses spread.

Personal Safety	Information that is shared online-even with a friendcan find its way to strangers who might do you harm. Not giving out personal information and using passwords are ways to protect yourself.	Cybersmart lesson: Private Information By examining and identifying actual online requests for private information, students learn to apply the same safety rules in cyberspace as they use when encountering strangers in the face-to-face world.	SOL Lessons/Ideas from Netsmartz & Other Resources	Cybersmart lesson: Privacy Rules! Students learn that children's Web sites must protect their private information, and look for privacy policies and privacy seals of approval.	Your Online Identity	E-mailing, IM-ing, online gaming, chatting, and other ways of making and keeping up with friends online can be a lot of fun—but you have to be careful of people you have never actually met who may misrepresent themselves. Even people you know can use online communications to harass or bully you.	NetSmartz Kids Activity Card: The Boy Who Loved IM 1 http://ncmec.vo.llnwd.net/o15/downloads/print/56boyim1.pdf Students learn how difficult it is to tell when someone is misrepresenting themselves online and play a game to reinforce this.	NetSmart Activity card: Meet the WizzyWigs 1: http://ncmec.vo.llnwd.net/o15/downloads/print/56meetww1.pdf Students watch "Meet the WizzyWigs" and are introduced to possible dangers on the Internet in the form of characters named the WizzyWigs.	NetSmartz Activity Card Angela's Experience 1 Students watch "Angela's Experience" and discuss the safe and unsafe online behaviors they identified in the vignette. NetSmartz Activity Card Post-to-be-Private 1 Students watch "Post-to-be Private" and discuss what rules should be followed when adding "friends" on social networking sites. They participate in an activity where they decide whether or not to add someone they don't know in real life to their friends list. Students then write a persuasive letter to help a fictional friend realize potential dangers of using social networking sites. Upon completing these activities,
			Content Area				Classroom		
	Protect Identity	Private Information	Cybersafety Elements/Standards*	Privacy Rules	How to protect your online identity	Social Networking	People who misrepresent themselves	Recognize dangers on the Internet	Acceptable/non-acceptable social networking (email, IM, chat)
		4-5	Grade Level	4-5	4-6		5-6	5-6	5-6

	Write for a variety of purposes (Persuasive writing); use available technology	English-Writing 5.8	5.8	students will know to only accept "friends" on their social networking profiles that they know and trust in real life.
Grade Level	Cybersafety Elements/Standards*	Content Area	TOS	Lessons/Ideas from Netsmartz & Other Resources
5-6	Cyberbullying			http://mediasmarts.ca/lessonplan/introduction-cyberbullying-avatars-and-identity- lesson

Online Safety Strategies	What should you do when you encounter a problem online? If you get to a website you know you shouldn't see? If a friendly person online pressures you to meet in person? If someone is bullying you? Some problems can be solved by just following the rules; some by strategies like just saying 'no'; others by knowing where to go and whom to ask			Dealing with peer pressure: http://kidshealth.org/PageManager.jsp?dn_KidsHealth&lic=1&article_set=22003 &cat_id=20069&		http://www.usemod.com/cgi-bin/mb.pl?ConflictResolution NetSmartz Activity card: Cyberbullying on the Internet: You Can't take it Back (this lesson is listed under the middle school age level; however, if this is a problem at the elementary level, determine if it is appropriate for your class)		NetSmartz Activity Card Know the Rules: Tell People No Students watch the "Know the Rules" rap video and discuss what to do if someone tries to touch them in ways that make them feel scared, uncomfortable, or confused. They review "Body Language That Says 'NO" and complete a writing activity in response to situation cards. Students practice saying "NO" with a partner as they act out their written responses to the situation cards.	Knowing safe ways to search online and safe sites to visit, as well as adults you can turn to, can help prevent or solve online problems	NetSmartz: Students watch the "Tell a Trusted Adult" rap video. They learn that it is important to tell a parent, guardian, or other trusted adult if anything happens to them. Students brainstorm and identify who the trusted adults are in their family, neighborhood, friend group, school, and community. They then complete a math project using drawing compasses to create their own "Circle of Trust."
Online S		EP9 (4-6)				EP11 EP12		5.8		
		Guidance				Guidance		English: Writing		
	Problem-solving strategies	Understand problem-solving strategies	Peer-pressure strategies	Strategies for managing peer pressure	Strategies for handling conflict	Strategies for handling conflict	Refusal skills	Develop refusal skills	Identify helpful resources	Trusted adults
		4-5		4-5		4-5		φ. 		5-6

Media/Information Literacy	When students research on the Internet, they need to be reminded about how to evaluate Web sites for authenticity and factuality.	MediaSmarts Stay on the Path: Scavenger Hunt			Doing research online: explore source of website (backtrack url), what is the agenda of the person promoting ideas; how different websites present the same topic		5.8 When helping students learn how to use oral language or how to write to inform, persuade, and entertain, point out how these techniques are often used on Web sites.	Cybersmart lesson: Students explore how some Web sites are designed as advertising environments to entertain visitors while promoting advertisers' brands and products. Don't be fooled by free prizes! Before you enter a contest or give out any personal information, ask a parent for help. Free prizes may be a tricky way of finding out where you live so companies can sell you their products.
Mer							English: Writing	
	Evaluate websites	Target searches/evaluate websites	Evaluate websites (created for 6-8 grade, determine if appropriate for your class)	Propaganda	Propaganda tactics, misleading ads, etc.)	Recognize commercial intentions	Write for a variety of purposes: describe, inform, entertain, explain	Web advertising techniques
		5-6	5-6		4-5		5	4-5

Resources

Other DOE resources used

Integrating NetSmartz: http://www.netsmartz.org/overview/howtousens.htm,

Health Education SOLs: http://www.doe.virginia.gov/testing/sol/standards_docs/health/index.shtml

Computer/Technology SOLs: http://www.doe.virginia.gov/testing/sol/standards_docs/computer-science/index.shtml

NetSmartz.org resources

NetSmartz Activity Cards: http://www.netsmartz.org/resources/activitycards.htm NetSmartz Kids adventure games: http://www.netsmartzkids.org/AdventureGames

NetSmartz rules and pledges: http://www.netsmartz.org/education/download/resource.html?catalog=/feeds/print_catalog.rss&item=rules-and-NetSmartz-what can be downloaded?: http://www.netsmartz.org/education/download/ : includes activity cards, other activities, games, and supplemental materials pledges

Other Internet Safety online resources

Common Sense Media

Alignment & Standards: http://www.commonsensemedia.org/educators/classroom-curriculum/alignment Cyberbullying Toolkit: https://www.commonsensemedia.org/educators/cyberbullying-toolkit Scope and Sequence: http://www.commonsensemedia.org/educators/scope-and-sequence

Digital Citizenship: http://www.digitalcitizenship.nsw.edu.au/

Budd:e (Australian internet safety curriculum): https://budd-e.staysmartonline.gov.au/teachers/primary/index.html

BBC e-Safety & Cyberbullying: http://www.bbc.co.uk/education/topics/zcpp34j

MediaSmarts (Canada's Centre for Digital & Media Literacy): http://mediasmarts.ca/

Kidsmart: http://www.childnet.com

Childnet.com (Copyright): http://www.childnet.com/resources/downloading/what-is-copyright-and-why-is-it-important

Internet Safety Games: Safety Land: http://www.att.com/Common/images/safety/game.html Meatball Wiki: http://www.usemod.com/cgi-bin/mb.pl?ConflictResolution

ies 6-8	Resource	http://cyber-safety.com/		www.NetSmartz.org <u>http://cyber-safety.com/</u> www.wikipedia.com		www.NetSmartz.org http://cyber-safety.com/	Jaenityvng ana Onaersianaing ine raugicies Osea in Aaveriising http://www.readwritethink.org/lessons/lesson_view.asp?id=785	www.NetSmartz.org http://www.library.cornell.edu/olinuris/ref/research/webeval.html http://cyber-safety.com/	Inquiry on the Internet: Evaluating Web Pages for a Class Collection http://www.readwritethink.org/lessons/lesson_view.asp?id=328
Activities Grades 6-8	Activity	As students learn to express opinions with convincing arguments, emotions likely will become heated. Students should be apprised of the dangers of cyberbullying.	This lesson incorporates the teaching of bullying issues with literature. It easily can be extended to include cyberbullying.	When students use online tools as reference resources, address the general safety issues appropriate for this age group.	In writing factual articles for an online encyclopedia, students learn about fact and opinion as found on the Internet.	Students exploring persuasive messages can see how these same techniques are used in Web content and advertisements.	This lesson develops student awareness of the logical fallacies used in advertising.	Students learning to analyze details for relevance and accuracy also can use these skills with Internet sites.	This lesson provides techniques for teachers to use when teaching students how to evaluate Web sites.
	SOL	6.2		6.5, 7.6, 7.7, 8.6		7.3, 8.3		8.6	
	Core Subject				English				

Middle School/High School Activities and Resources

www.NetSmartz.org http://cyber-safety.com/	www.NetSmartz.org http://cyber-safety.com/	www.NetSmartz.org http://cyber-safety.com/	www.NetSmartz.org http://cyber-safety.com/	www.NetSmartz.org http://cyber-safety.com/	www.NetSmartz.org http://cyber-safety.com/	www.NetSmartz.org http://cyber-safety.com/ http://www.pewinternet.org/search.asp					
If students are using online tools for written communications, address the general safety issues	If students are using online resources for practicing skills or conducting research, address the general safety issues. This lesson focuses on research skills and illustrates how predators easily can piece together information about students.	As students learn to express opinions with convincing arguments, emotions likely will become heated. Students should be apprised of the dangers of cyberbullying.	While studying the impact of media on public opinion and public policy, use examples from the Web. Students doing research must learn to recognize techniques used to persuade others of a certain point of view.	Use the Web to underscore the concepts of interpreting ideas from different perspectives and separating fact from opinion.	Students exploring the impact of new technologies on our culture should examine safety issues related to the Internet and other electronic communication devices.	Students using charts and spreadsheets to explore information could examine Internet cyber safety data.					
7.8, 8.7	USI.1, USII.1, CE.1, WH.1	USII.1, CE.1	CE.7	USII.1, CE.1	USII.8, CE.3, CE.8, CE.10, CE.11, CE.12	CE.1					
		History/Social USILI CE.1, CE.1, USILI Science USILI CE.11									

	6.1, LS.1, PS.1	If students are using online tools for written communications, address the general safety issues appropriate for this age group.	www.NetSmartz.org http://cyber-safety.com/
		This lesson, based on a doctored photograph of a shark, can help students understand that not all they see online is true.	
Science	6.1	Students learning how to think logically can evaluate information on the Internet for accuracy and logical validity.	www.NetSmartz.org http://cyber-safety.com/
		This lesson in logical thinking helps students understand how online predators gather bits of information to target victims.	
	6.9, PS. 1	Students doing research must explore the difference between fact and opinion and recognize techniques used to persuade others of a certain point of view.	www.cnn.com www.NetSmartz.org http://cyber-safety.com/
	6.18, 6.19, 6.20, 7.16, 7.17, 7.18, 8.12, 8.13	Students could use data about cyber safety issues.	www.NetSmartz.org http://cyber-safety.com/ http://www.pewinternet.org/search.asp
Math		Although this resource is not a lesson plan, it can provide a good reference for students exploring how data can be presented and misrepresented using charts and graphs.	

ies	9-12	Resource	www.msn.com www.wikipedia.com	www.NetSmartz.org http://cyber-safety.com/	Defining Literacy in a Digital World http://www.readwritethink.org/lessons/lesson_view.asp?id=915	www.cnn.com www.NetSmartz.org http://cyber-safety.com/	www.NetSmartz.org http://cyber-safety.com/	Copyright Infringement or Not? The Debate over Downloading Music http://www.readwritethink.org/lessons/lesson_view.asp?id=855	http://cyber-safety.com/ www.netsmartz.org	http://cyber-safety.com/ Naming in the Dinited World: Continue Self Baumana the Literated	ivuming in ine Digital World. Ureating a saje rersona on the internet
Activities Grades 9-12	Activity	Students exploring literary styles can see how these same styles are used in Web content and advertisements.	When students use online tools as reference resources, address the general safety issues appropriate for this age group.	This lesson focuses on the various forms of literacy required in today's world. A teacher easily can incorporate safety issues into this lesson plan.	Students can apply nonfiction reading skills to information on Web sites, especially when identifying the author's position and purpose.	As students learn to express opinions with convincing arguments, emotions likely will become heated. Students should be apprised of the dangers of cyberbullying. Note: Cybersafety may be used as a topic for presentations.	This lesson addresses music downloading and legal issues as topics for a persuasive debate activity.	If students are using online resources for practicing skills, address the general safety issues.	If students are using online tools for written communications, address the general safety issues.	89	
,	-	SOL	9.3	9.4, 9.9, 10.11, 11.4, 11.10, 12.7, 12.8		9.4, 10.9, 12.8	12.1		11.9	9.6, 10.7, 10.11, 11.7, 11.9, 12.7	
		Core Subject					English				

http://www.readwritethink.org/lessons/lesson_view.asp?id=843	Paying Attention to Technology: Exploring a Fictional Technology http://www.readwritethink.org/lessons/lesson view.asp?id=323 Paying Attention to Technology: Writing Technology Autobiographies http://www.readwritethink.org/lessons/lesson_view.asp?id=325 www.netsmartz.org	http://cyber-safety.com/ www.netsmartz.org	www.netsmartz.org http://cyber-safety.com/	http://www.library.cornell.edu/olinuris/ref/research/webeval.html www.netsmartz.org
This lesson teaches students to create safe user names while learning about word connotations. This lesson focuses on student communication with news outlets and blogs. Safety issues can be incorporated easily. Teachers may opt to use a blog simulation rather than a real blog.	When writing, students can use Internet safety as a topic. Students use fiction to explore their assumptions about technology. Students focus on their personal uses of technology and how these affect their lives.	When exploring the differences between fact and opinion, students should understand that Web sites do not always contain factual information and that certain techniques can be used to persuade others.	Students learning to write persuasive messages can see how these same techniques are used in Web content and advertisements. This lesson focuses generally on advertising techniques and can easily incorporate Internet-based advertising.	When students research on the Internet, remind them how to evaluate Web sites for authenticity and factuality.
	9.6, 10.7, 11.7, 12.7	9.3, 9.4, 11.2, 12.7	11.1, 11.7, 12.1	9.4, 9.9, 10.11, 11.4, 11.10, 12.7, 12.8

	9.4, 11.2	Students learning to analyze details for relevance and accuracy can use these same skills with Internet sites.	
		In this lesson, students learn about techniques used in advertising, including electronic ads.	Identifying and Understanding the Fallacies Used in Advertising http://www.readwritethink.org/lessons/lesson_view.asp?id=785 http://cyber-safety.com/
	9.4, 9.9, 10.4, 10.11, 11.4, 11.10, 12.4. 12.7, 12.8	Students exploring issues with research and for writing projects can use technology and ethics as a topic.	www.netsmartz.org
)	Students use their book review technology.	Paying Attention to Technology: Reviewing a Technology http://www.readwritethink.org/lessons/lesson_view.asp?id=838
Englisn		Students use the technology of a blog to write about how their own visions of a utopia would work. An alternative activity is included for divisions that do not have access to blog technology.	Blogtopia: Blogging About Your Own Utopia http://www.readwritethink.org/lessons/lesson_view.asp?id=942
	WHIL15, WG.7, VUS.1, VUS.14, GOVT.1, GOVT.18	As students learn to express opinions with convincing arguments, emotions likely will become heated. Students should be apprised of the dangers of cyberbullying.	www.netsmartz.org
Historv/Social		This lesson asks students to probe the issues involved with social networking sites, the government's role in protecting children, and their own role as citizens.	http://cyber-safety.com/
Science	WHIL1, WG.7, VUS.1, GOVT.1, GOVT.6	Students doing research must explore the difference between fact and opinion and recognize techniques used to persuade others of a certain point of view. Students explore the nature of propaganda. Teachers can make a connection to information found on Web sites or in advertisements	Argument, Persuasion, or Propaganda?: Analyzing World War II Posters http://www.readwritethink.org/lessons/lesson view.asp?id=829 http://cyber-safety.com/
	WHII.15, WG.9, WG.12, VUS.14, GOVT.9, GOVT.11	Students exploring the impact of new technologies on our culture should examine safety issues related to the Internet and other electronic communication devices.	http://cyber-safety.com/ www.netsmartz.org
	-	61	

		http://www.library.cornell.edu/olinuris/ref/research/webeval.html http://cyber-safety.com/ www.netsmartz.org		www.netsmartz.org http://cyber-safety.com/	www.netsmartz.org http://cyber-safety.com/	www.netsmartz.org http://cyber-safety.com/ http://www.pewinternet.org/search.asp	www.netsmartz.org http://cyber-safety.com/
This lesson focuses on the government's role in protecting children, balanced with free-speech rights.	This lesson explores the various communication technologies available today and their impact on everyday life.	Remind students that personal observations and opinions can be communicated on the Internet as if they are fact.	Teachers can help students understand that data collected and presented on the Internet may be flawed due to many variables, including equipment malfunction, human bias, or presentation mechanisms.	If students are using online tools for written communications, address the general safety issues appropriate for this age group.	As students learn to express opinions with convincing arguments, emotions likely will become heated. Students should be apprised of the dangers of cyberbullying.	Students could use data about cyber safety issues.	Students could use data about information found on the Internet.
		ES.2, ES.11, ES.12, ES.14, BIO.1, BIO.8, PH.3, PH.4	ES.1, BIO.1, CH.1, PH.1	ES.1, BIO.1, CH.1, PH.1	ES.1, BIO.1	A.4, A.5, AII/T.19, PS.1, PS.8, PS.9	PS.9
	2	S. S. S. S. S. S. S. S. S. S. S. S. S. S				Math	

6.1	Students can explore logical arguments using information about cyber safety.	www.netsmartz.org http://cyber-safety.com/
DM.12	Students can use logic techniques to analyze arguments on Web sites.	www.netsmartz.org http://cyber-safety.com/
	This logical-thinking lesson can help students understand how online predators gather bits of information to target victims.	

School Technology Needs Assessment Compiled District

Data

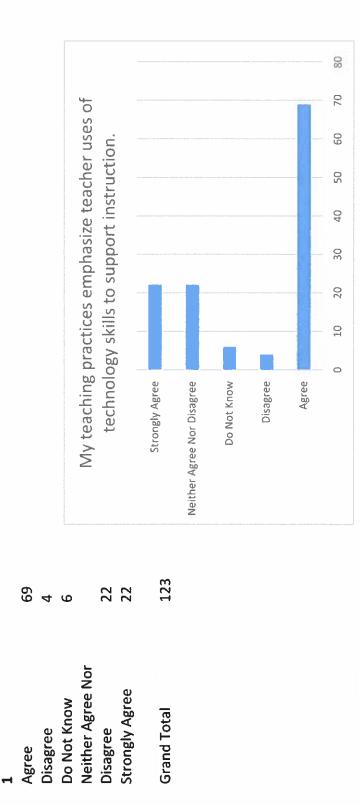
Survey Dates: February 23, 2017 - March 8, 2017

Developed and Hosted by: The William and Ida Friday Institute for Educational Innovation

University of North Carolina at Greensboro

"In My School..."

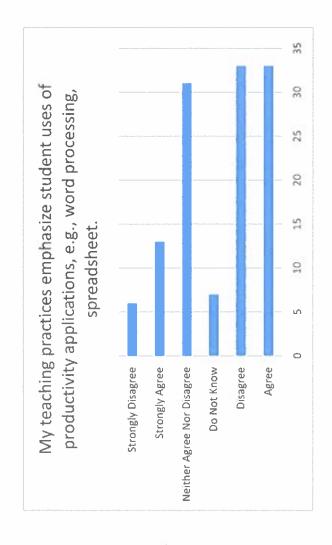
My teaching practices emphasize teacher uses of technology skills to support instruction.



Impact of Technology Teaching Practices

My teaching practices emphasize student uses of productivity applications, e.g., word processing, spreadsheet. 2

33 33 33	7	31	13	9	123	
Agree Disagree	Do Not Know	Disagree	Strongly Agree	Strongly Disagree	Grand Total	



My teaching practices emphasize student uses of technology as an integral part of specific teaching strategies, e.g., project-based or cooperative learning.

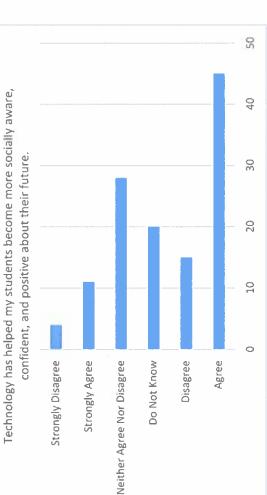
41 My teaching practices emphasize student uses of	22 technology as an integral part of specific teaching	strategies, e.g., project-based or cooperative	35	14 Strongly Disagree	123 Neither Agree Nor Disagree	Do Not Know	Disagree	
ces emphi	itegral par	oroject-bas	learning.					C L R
asize s	t of sp	sed or		-100-000-00	 -		-	- C
tuden	ecific	coope						- 0
t uses	teachi	erative			I		-	
Ö	ng	<i>a</i> .		(d ^{an} an ^a nana			-1	-
<u> </u>								-

95

Impact of Technology **Teaching Practices**

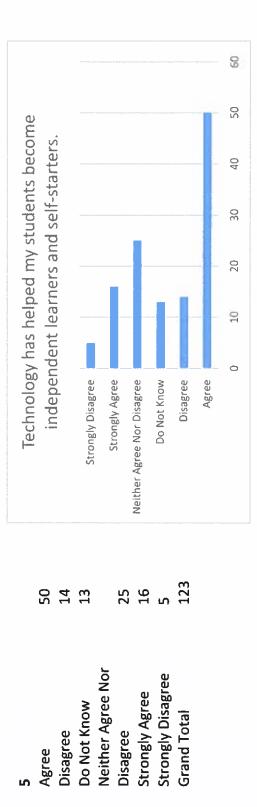
Impact of Technology **Teaching Practices** Technology has helped my students become more socially aware, confident, and positive about their future.

			10.00 TO 10.00 TO 10.00
4		Technology has helped my	elped mv
Agree	45	confic	confident, and
Disagree	15		
Do Not Know	20	Strongly Disagree	
Neither Agree Nor		Strongly Agree	
Disagree	28		
Strongly Agree	11	Neither Agree Nor Disagree	
Strongly Disagree	4		
Grand Total	123	UO NOT KNOW	
		Disagree	



<u>Impact of Technology</u> Student Outcomes

Technology has helped my students become independent learners and self-starters.



96

Impact of Technology

Student Outcomes

Technology has helped my students work more collaboratively.

ø

													45
ė				rağındı Antonia adığar aradı	-11-2-5-2-11-52-1					Ĩ			40
mor											-		35
work											-	-	30
ents											-		25
stude	vely.											-	20
l my	collaboratively.	_				-							15
elpec	ollabo			_	-					_		-	10
as he	ö									_	1	-	Ś
Technology has helped my students work more			Strongly Disagree	Strongly Agree		Neither Agree Nor Disagree	Do Not Know	· · · · · · · · · · · · · · · · · · ·	Disagree		Agree		0
40	18	10		34	17	4	123						
Agree	Disagree	Do Not Know	Neither Agree Nor	Disagree	Strongly Agree	Strongly Disagree	Grand Total						

Technology has increased my students' engagement in their learning.

0

		Technology has increased my students'		nas in	rreas,	vm be	stude	'ntc'		
				222	5.		12270	2		
Agree	62	en	gagei	nent	in the	engagement in their learning.	ning.			
Disagree	თ									
Do Not Know	80	Strongly Disagree								
Neither Agree Nor		Strongly Agree			-					
Disagree	19	Neither Agree Nor Disagree		4						
Strongly Agree	23	Do Not Know		_						
ongly Disagree	2	Disagree								
Grand Total	123	Agree		_		******		_		
			0	10	20	30	40	50	60	70

26

<u>Impact of Technology</u> Student Outcomes

Impact of Technology Student Outcomes

Technology has helped my students achieve greater academic success.

¢

00		Tochnolo	an har h	boolo		4000	voido c	0		
Agree	52	iccilliology lias liciped iily staucills actilede	gy nas	nadia:	יין אין איר י	מבוורא	מרוועג	υ		
Disagree	10		greater academic success.	acader	nic su(cess.				
Do Not Know	11									
Neither Agree Nor		Strongly Disagree								
Disagree	31	Strongly Agree								
Strongly Agree	15									
Strongly Disagree	4	Neither Agree Nor Disagree		_		17. A.				
Grand Total	123									
		Do Not Know	August 1							
		Disagree								
		Δατοο								
							-	-		
			0	10	20	30	40	50	60	

Impact of Technology Student Outcomes

A vision for technology has been developed through an effective collaboration among stakeholders, e.g., administrators, specialists, teachers, students, and community members. 9

A vision for technology has been developed through an effective collaboration among stakeholders, e.g., administrators, specialists, teachers, students, and community members. Strongly Agree Do Not Know Agree 0 10 20 30 40 50 60 70 80		Supportive Environment	Vision/Shared Leadership
on for technology has been developed through an effective pration among stakeholders, e.g., administrators, specialists, teachers, students, and community members.			80
A vision for technology has been developed through an effective collaboration among stakeholders, e.g., administrators, specialists, teachers, students, and community members. Strongly Agree Do Not Know Agree Do Not Know Agree Do 20 30 40 50 60			70
A vision for technology has been developed through an efficient collaboration among stakeholders, e.g., administrators, spectrongly Agree Do Not Know Agree 0 10 20 30 40 50	fective cialists,		0
A vision for technology has been developed throucollaboration among stakeholders, e.g., administration among stakeholders, e.g., administration and stakeholders, administrati	ugh an ef ators, spe	nbers.	20
A vision for technology has been develo collaboration among stakeholders, e.g., a teachers, students, and comm Strongly Agree Do Not Know Agree 0 10 20 30	ped thro administra	unity mer	
A vision for technology has bee collaboration among stakehold teachers, students, ar Strongly Agree Do Not Know Agree 0 10 20	en develo ers, e.g., a	nd comm	Q
A vision for technolog collaboration among s teachers, stu teachers, stu bo Not Know Agree 0 10	gy has bee takeholde	udents, ar	S 2
A vision for collaboration te Strongly Agree Do Not Know Agree 0	technolog n among s	achers, stu	s g
	A vision fo collaboratio	te	
	Agree Disagree	Do Not Know Neither Agree nor	Disagree Strongly Agree Strongly Disagree Grand Total

The vision for technology use has been effectively communicated to the community.

Administrators model effective uses of technology. 11

	ł									
	75	Administrators model effective uses of	istrato	ors mo	Id a la la	Fectivi		of		
Disagree	18		2355				ý Dob J	5		
Do Not Know	7			tecni	technology.	۲.				
Neither Agree nor			_			3				
se	23	Shi Ungry Disagree								
Strongly Agree	26	Strongly Agree								
Strongly Disagree	4	Neither Agree nor Disagree								
Grand Total	153	Do Not Know	-odd-1							
		Disagree								
		Agree					-	-		
			0 1	10 20	30	40	50	60	70	

Supportive Environment Vision/Shared Leadership

Vision/Shared Leadership Supportive Environment

80

20

60

20

40

30

20

10

Φ

Agree

Administrators support changes in school-level systems, policies, and practices related to technology.

12

Disagree 6 Do Not Know 10 Neither Agree nor 16 Disagree 24 Strongly Agree 24	a				
Administrat systems,	Strongly Disagree Strongly Agree	Neither Agree nor Disagree	Do Not Know	Disagree	Agree
Administrators support changes in school-level systems, policies, and practices related to technology.					

Teachers who are innovators with technology receive nonmaterial incentives, e.g., public recognition, special appreciation.

100

80

60

40

20

0

13

*				
Agree	41	-	2	
Disagree	34	leachers who are innovators with technology	technology	
Do Not Know	24	receive nonmaterial incentives, e.g., public	.g., public	
Neither Agree nor		recognition, special appreciation.	tion.	
Disagree	35	•		
Strongly Agree	11	Strongly Disagree	-ler-weak wat	
Strongly Disagree	7	Strongly Agree		
Grand Total	152	Neither Agree nor Disagree		
		Disagree		
		Agree		
		0 5 10 15 20 25	30 35 40	
		100		

Supportive Environment

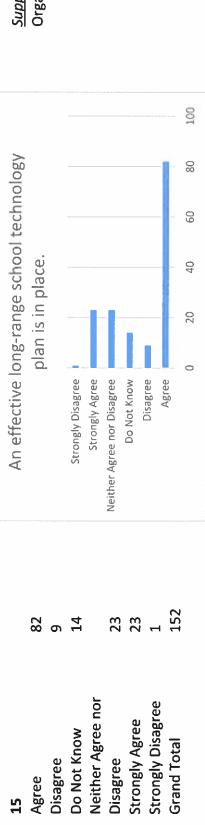
Vision/Shared Leadership

<u>Supportive Environment</u> Vision/Shared Leadership When administrators are evaluating teachers, they consider technology literacy and leadership for technology.

When administrators are evaluating teachers, they consider technology literacy and leadership for technology.	
When administrato they consider techno for	Strongly Disagree Strongly Agree Neither Agree nor Disagree Do Not Know Disagree
74 5 25	32 15 152
14 Agree Disagree Do Not Know	Neither Agree hor Disagree Strongly Agree Strongly Disagree Grand Total

Supportive Environment Vision/Shared Leadership

An effective long-range school technology plan is in place.



101

Supportive Environment Organizational Conditions

8

2

3

3

49

30

20

2

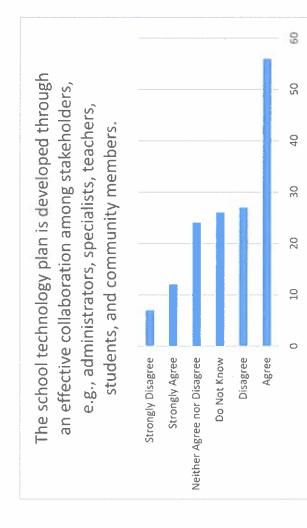
0

Agree

The school technology plan is developed through an effective collaboration among stakeholders, e.g., administrators, specialists, teachers, students, and community members.

16

56	27	26		24	12	7	152	
Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Strongly Disagree	Grand Total	



The school technology plan is monitored and updated at least once a year.

71										
Agree	36	ي من المراجع العالمين المراجع ا المراجع المراجع								
Disagree	10	The school technology plan is monitored and	ol techn	ology p	lan is r	nonitc	red ar	Jd		
Do Not Know	54	л	updated at least once a year.	at least	: once :	a year.				Sup
Neither Agree nor										
Disagree	40	Strongly Disagree	_ 							Or
Strongly Agree	10	Strongly Agree	¢1)	_						
Strongly Disagree	2	Neither Agree nor Disagree	41							
Grand Total	152	Do Not Know	>							
		Disagree	0	_				2 ^{m-1-1} -1 ^m 4474		
		Agree	0	104- 140						
			0	10 2	20	30	40	50	60	

102

Organizational Conditions Supportive Environment

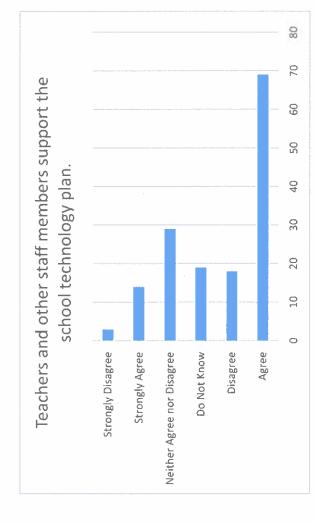
upportive Environment

rganizational Conditions

Teachers and other staff members support the school technology plan.

18

69	18	19		29	14	m	152	
Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Strongly Disagree	Grand Total	



The amount of money budgeted for technology resources is sufficient for implementing decisions arising from planning. 10

Agree Disagree	26 28	The amount of money budgeted for technology resources is sufficient for implementing decisions	nt of mor sufficier	ney budge It for impl	ted for	technc ing dec		logy isions
Do Not Know Neither Agree nor	48	2	arising	arising from planning.	nning.	0	2	
Disagree Strongly Agree	32 10	Strongly Disagree Strongly Agree			var olar or 1 milerar 1 i			an a
Strongly Disagree	ø	Neither Agree nor Disagree		-5-74				19-0-0-0-0-0-0
Grand Total	152	Do Not Know						
		Disagree		2				
		Agree						
			0 10	0 20	30	40		20

103

<u>Supportive Environment</u> Organizational Conditions

Supportive Environment

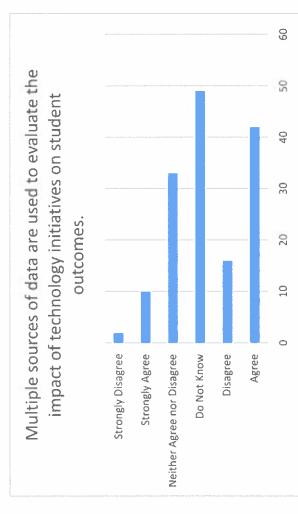
Organizational Conditions

ey become outdated.	<u>Supportive Environment</u> Organizational Conditions		port from businesses.	Supportive Environment	Organizational Conditions
The amount of money budgeted for technology resources is sufficient for continuously updating and replacing technology systems as they become outdated. 20 Agree 18	The amount of money budgeted for technology resources is sufficient for continuously updating and replacing technology systems as they become outdated.	Strongly Disagree Strongly Agree Neither Agree nor Disagree Do Not Know Disagree	Agree Agree <td< th=""><th>Supplemental sources of funding are actively pursued to support technology, e.g., external grants, collaboration with community or parent groups, support from businesses.</th><th>Strongly Disagree Strongly Disagree Strongly Disagree Do Not Know Disagree Agree 0 10 20 30 40 50 60 70</th></td<>	Supplemental sources of funding are actively pursued to support technology, e.g., external grants, collaboration with community or parent groups, support from businesses.	Strongly Disagree Strongly Disagree Strongly Disagree Do Not Know Disagree Agree 0 10 20 30 40 50 60 70
The amount of money budgeted for technology re 20 Agree 18	Disagree 44 Do Not Know 42 Neither Agree nor 30 Disagree 6 Strongly Disagree 12	Grand Total 152	Supplemental sources of funding are actively pursued t	21 Agree 23 Disagree 14 Do Not Know 66 Neither Agree nor	Disagree 37 Strongly Agree 8 Strongly Disagree 4 Grand Total 152

Multiple sources of data are used to evaluate the impact of technology initiatives on student outcomes.

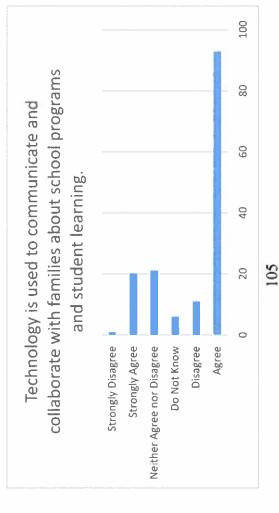
22

42	16	49		33	10	2	152	
Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Strongly Disagree	Grand Total	



Technology is used to communicate and collaborate with families about school programs and student learning.

	93	11	9		21	20	1	152	
23	Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Strongly Disagree	Grand Total	



<u>Supportive Environment</u> Organizational Conditions

<u>Supportive Environment</u> Organizational Conditions Technology is used to communicate and collaborate with the community about school programs designed to enhance student learning.

(24	

24		Tochaology is used to come		
Agree Disagree	78 14	collaborate with the community about school	ity about school	
Do Not Know	13	programs designed to enhance student learning.	student learning.	
Neither Agree nor				
Disagree	30	Strongly Disagree		Su
Strongly Agree	16 1	Strongly Agree		ō
strongly Ulsagree Grand Total	1 152	Neither Agree nor Disagree		
		Do Not Know		
		Disagree		
		Agree		

Drganizational Conditions upportive Environment

There is at least one computer in every classroom.

25				
Agree	79	There is at least one computer in every	er in every	
Disagree	Υ	classroom.		
Do Not Know	11			
Neither Agree nor		Strongly Disagree		
Disagree	ъ	Strongly Agree		
Strongly Agree	52	Neither Agree nor Disagree		
Strongly Disagree	2	Do Not Know		
Grand Total	152	Disagree		
		Agree		1-194-996 (ar 4-1-1a)
		0 10 20 30 40	50 60 70 80	90

Supportive Environment

Infrastructure

26 57 Teachers have access to enough computers, in the classroom, in a lab, or from a mobile cart, so that they can have one computer for every two students when needed for an activity. Supportive infrastruct Disagree 22 Teachers have access to enough computer for every two students when needed for an activity. Supportive infrastruct Disagree 14 Strongly Agree 3 Supportive infrastruct Strongly Agree 35 Strongly Agree 3 Supportive infrastruct Strongly Disagree 14 Strongly Disagree 3 Supportive infrastruct Strongly Disagree 35 3 Supportive infrastruct Supportive infrastruct Grand Total 15 Nether Agree nor bisagree 3 Supportive infrastruct Grand Total 15 Nether Agree nor bisagree 3 Supportive infrastruct Grand Total 15 Nether Agree nor bisagree 3 Supportive infrastruct Grand Total 15 Supportive infrastruct Supportive infrastruct Supportive infrastruct Grand Total 15 Supportive infrastruct 10 20 3 Supportive infrastruct Supportince 10 10

Teachers have access to enough computers, in the classroom, in a lab, or from a mobile cart, so that they can have one computer for every two students when needed for an activity.

20 30

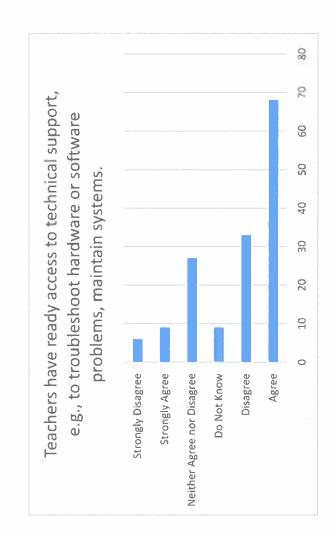
Electronic systems for communicating within the school are adequate, e.g., e-mail among teachers and staff, network drives to upload lesson plans and grades to the main office.	Electronic systems for communicating with families and the community are adequate, e.g., e-mail, teacher, and/or school Web pages.	Efectronic systems for communicating with families and the community are adequate, e.g., e-mail, teacher, and/or school Web pages. Strongly Disagree Strongly Agree Do Not Know Disagree	ABree Handling and the second se
28 Agree 98 Disagree 11 Do Not Know 1 Neither Agree nor 15 Disagree 15 Strongly Agree 24 Strongly Disagree 3 Grand Total 152	ystems for communicating w	29 Agree 86 Disagree 13 Do Not Know 6 Neither Agree nor 6 Disagree 21 Ne Strongly Disagree 24 Strongly Disagree 2	Grand lotal 152

ing other resources.	<u>Supportive Environment</u> Infrastructure		olocked by filters.	<u>Supportive</u> Environment	Infrastructure
e sufficient for connecting to the Internet, using online databases, viewing online video, and accessing other resources.	Reliability and speed of external connections are sufficient for connecting to the Internet, using online databases, viewing online video, and accessing other resources.	Strongly Disagree Strongly Agree Strongly Agree Do Not Know Disagree Agree	0 10 20 40 50 60 Students can access appropriate web resources and tools that teachers would like them to use without being blocked by filters.	Students can access appropriate web resources and tools that teachers would like them to use without being blocked by filters.	Strongly Disagree Strongly Agree Do Not Know Disagree Agree 0 10 20 30 40 50 60
Reliability and speed of external connections are sufficient for connecting 30	Agree 52 Disagree 51 Do Not Know 5 Neither Agree nor 18 Disagree 10	Agree Disagree Ital	Students can access appropriate we	31 Agree 40 Disagree 57 Do Not Know 14	Neutrer Agree flor Disagree 18 Strongly Agree 8 Strongly Disagree 15 Grand Total 152

Teachers have ready access to technical support, e.g., to troubleshoot hardware or software problems, maintain systems.

32

68	თ	27	6
33		9	152
Agree	Do Not Know	Disagree	Strongly Disagree
Disagree	Neither Agree nor	Strongly Agree	Grand Total



Library media coordinator and/or media assistant positions are adequately staffed. 33

	Disagree	Do Not Know	Veither Agree nor	Disagree	Strongly Agree	Strongly Disagree	Srand Total			
48	46	00		28	13	თ	152			
	Library			Strongly Disagree	Strongly Agree	Neither Agree nor Disagree	Do Not Know	Dis		
	media co	position		sagree	Agree	sagree	Know	Disagree	Agree	0
	ordinato	is are ade						_		10
	Library media coordinator and/or media assistant	positions are adequately staffed.								20 30
	nedia ass	taffed.								40
	sistant								1	50

110

Supportive Environment

Staff Support

<u>Supportive Environment</u> Staff Support

5		
Disagree 45 Do Not Know 7 Neither Agree nor 23 Disagree 23	Technology facilitator and/or technology assistant positions are adequately staffed.	<u>Supportive Environment</u> Staff Support
Agree Disagree	Strongly Disagree	
	Strongly Agree	
	Neither Agree nor Disagree	
	Disagree	
	Agree	
	0 10 20 30 40 50 60	
Teachers and students have ready a	Teachers and students have ready access to productivity software, e.g., graphic organizer, word processing, slide presentation, or drawing	e presentation, or drawing
approximit. 35	Teachers and students have ready access to	
Agree 71 Disagree 23 Do Not Know 18	productivity software, e.g., graphic organizer, word processing, slide presentation, or drawing	<u>Supportive Environment</u> Media and Software
e nor	applications.	

Technology facilitator and/or technology assistant positions are adequately staffed.

10 20

Agree

Do Not Know Disagree

Strongly Disagree

Strongly Agree

25 12 3 152

> Strongly Agree Strongly Disagree

Disagree

Grand Total

Neither Agree nor Disagree

0

80

70

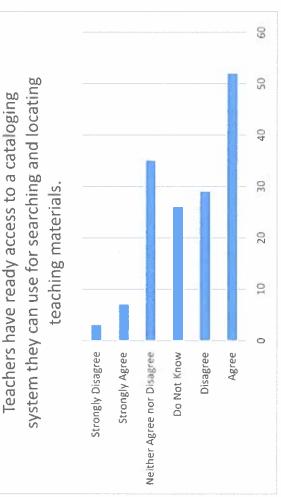
60

20

40

30

Teachers have ready access to a cataloging system they can use for searching and locating teaching materials. 36



Teachers and students have ready access to a good collection of print, multimedia, and electronic resources.

37 Agree 71 Disagree 24 Do Not Know 11 Neither Agree nor 31 Neither A Strongly Agree 11 Strongly Disagree 3 Grand Total 151	Teachers and st good collecti ele strongly Disagree strongly Agree Do Not Know Disagree Agree	Teachers and students have ready access to a good collection of print, multimedia, and electronic resources.	ady access to a timedia, and es.
	0	20	40 60

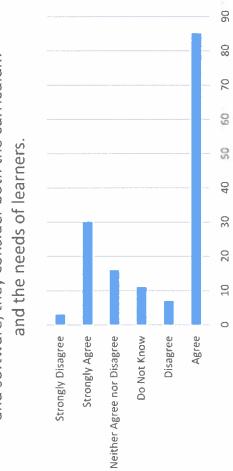
112

Supportive Environment Media and Software Supportive Environment Media and Software When educators are selecting resource media and software, they consider both the curriculum and the needs of learners.

20

	85	7	11		16	30	ŝ	152	
38	Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Strongly Disagree	Grand Total	





The media center can be flexibly scheduled to provide equitable access to resources and instruction.

39	Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Strongly Disagree	Grand Total			
	53	24	29		29	14	m	152			
The second second	the media center can be tlexibly scheduled to	provide e			Strongly Disagree	Strongly Agree	Neither Agree nor Disagree	Do Not Know	Disagree	Agree	
	center	equitabl	.=								0 10
	can de tie)	provide equitable access to resources and	instruction.							-	0 20
حاجد والحاث	(IDIY SCN	o resour						1			30
	eauleo	ces and									40
-	0	σ			d-faaftered alaan						50
											60

113

Supportive Environment Media and Software Supportive Environment

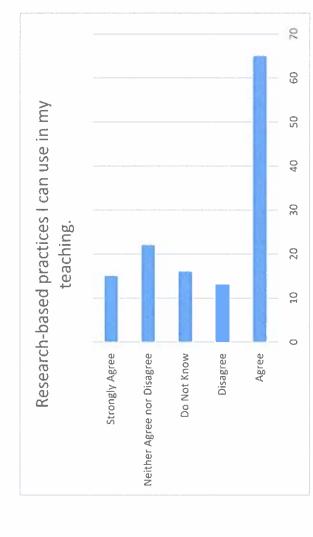
Flexible Scheduling

5.)	Supportive Environment Flexible Scheduling	obile computers.) <u>Supportive Environment</u> Flexible Scheduling
uitable access to resources and instruction. (Leave this item blank if your school has no computer labs.)	Computer labs can be flexibly scheduled for equitable access to resources and instruction. (Leave this item blank if your school has no computer labs.) Strongly Disagree Strongly Disagree for the Agree nor Disagree Do Not Know Disagree Agree afree afree defined of the struction.	Mobile computers can be flexibly scheduled to provide equitable access to resources and instruction. (Leave this item blank if your school has no mobile computers.) 41 42 43 44 44 45 46 46 46 46 46 46 46 46 46 46
Computer labs can be flexibly scheduled for equitable access to resources 40	Agree 64 Disagree 32 Do Not Know 11 Neither Agree nor 18 Disagree 13 Strongly Disagree 13 Strongly Disagree 13 Grand Total 151	Mobile computers can be flexibly scheduled to 41 Agree 70 Agree 21 Do Not Know 16 Disagree nor 16 Neither Agree nor 18 Strongly Disagree 10 Strongly Disagree 10 Grand Total 151

"I would benefit from professional development on..."

Research-based practices I can use in my teaching.

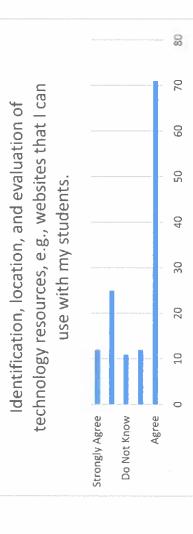
	65	13	16		22	15	131	
4.4	Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Grand Total	



Identification, location, and evaluation of technology resources, e.g., websites that I can use with my students.

43

	ļ	
Agree	71	
Disagree	12	
Do Not Know	11	
Neither Agree nor		
Disagree	25	Str
Strongly Agree	12	
Grand Total	131	



115

Professional Development Instruction Professional Development Instruction

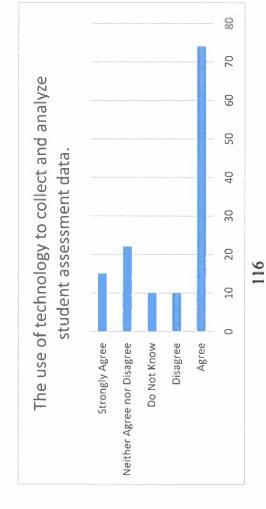
Performance-based student assessment of my students.

Agree	75 15			
Uisagree Do Not Know	t1 11	Performanc	Performance-based student assessment of my	
Neither Agree nor Disagree	16		students.	
Strongly Agree Grand Total	1 4 131	Strongly Agree		
		Neither Agree nor Disagree		
		Do Not Know		
		Disagree		
		Agree		

The use of technology to collect and analyze student assessment

data.

						Neither A	
/4	10	10		22	15	131	
Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Grand Total	

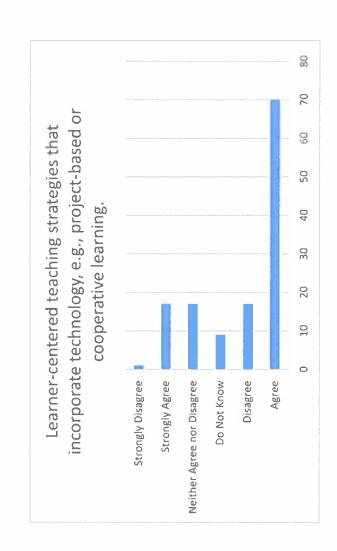


Professional Development Instruction

<u>Professional Development</u> Instruction Learner-centered teaching strategies that incorporate technology, e.g., project-based or cooperative learning.

46

	70	17	6	L	17	17	1	131	
10	Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Strongly Disagree	Grand Total	



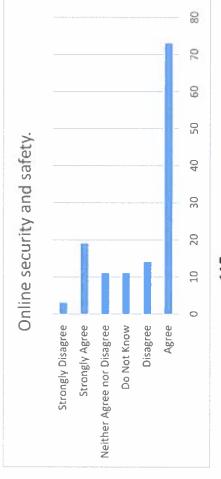
Online security and

•		
i.		
	2	
	safet	
	The second	
I	Ň	4

7	Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Strongly Disagree	Grand Total
47	Agr	Dis	å	Nei	Dis	Str	Str	Gra

73 14 11 131

11 19 3



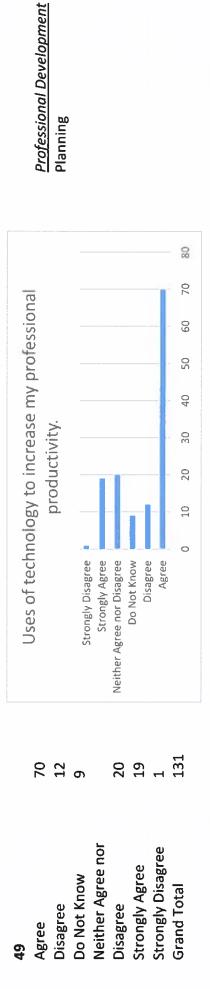
Professional Development Instruction

Professional Development Instruction The use of technology for differentiating instruction for students with special learning needs.

48

			4		i 	1 7			1			
Agree Disagree	76 10	I he use of technology for differentiating instruction for students with special learning	e of t in for	ecnno stud	ology ents	vith <u>s</u>	irrere pecia	ntiati al leai	ing rning			
Do Not Know	10				needs.	s.						
Neither Agree nor Disagree	15	Strongly Disagree										
Strongly Agree Strongly Disagree	19	Strongly Agree		_								
Grand Total	131	Neither Agree nor Disagree		-								
		Do Not Know										
		Disagree										
		Agree		-				_	- [-			
			0	10	20	30	40	50	60	70	80	

Uses of technology to increase my professional productivity.



118

Professional Development Instruction Ways to use technology to communicate and collaborate with families about school programs and student learning.

50		Move to use to characterize to communication to a more	
Agree	63		
Disagree	11	collaborate with families about school programs	
Do Not Know	6	and student learning.	
Neither Agree nor			
Disagree	31	Strongly Disagree	
Strongly Agree	15	Strongly Agree	
Strongly Disagree Grand Total	2 131	Neither Agree nor Disagree	- 100-1 - 0 - 0 - 0 - 0 - 0
		Do Not Know	
		Disagree	and and a second se
		Agree	Sever Jacob State - Schwart

Ways to use technology to communicate and collaborate with other

educators.

51						
Agree	75					
Disagree	12	Ways to use technology to communicate and) communica	ite an(75	
Do Not Know Neither Agree nor	9	collaborate with other educators.	er educators			
Disagree	21	Strongly Agree				
Strongly Agree	17	Neither Agree nor Disagree				
Grand Total	131	Do Not Know				
		Disagree				
		Agree				
		0 10 3	30 40 50	60	70	80
		119				

Professional Development Planning

20

60

50

40

30

20

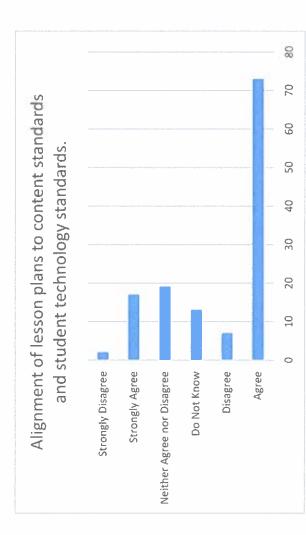
10

0

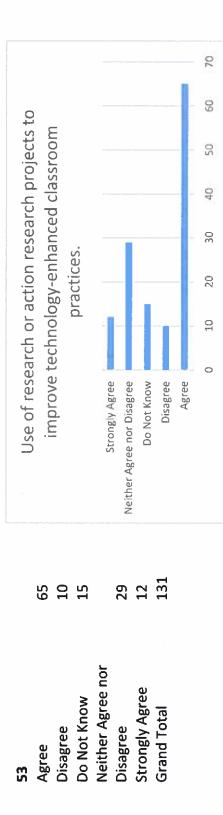
Professional Development Planning Alignment of lesson plans to content standards and student technology standards.

	đ
22	Δστ

	Ali	5555 5555	Str	Neither Agree r
73 7	13	19 17	2 131	
Agree Disagree	Do Not Know Neither Agree nor	Disagree Strongly Agree	Strongly Disagree Grand Total	



Use of research or action research projects to improve technology-enhanced classroom practices.



Planning

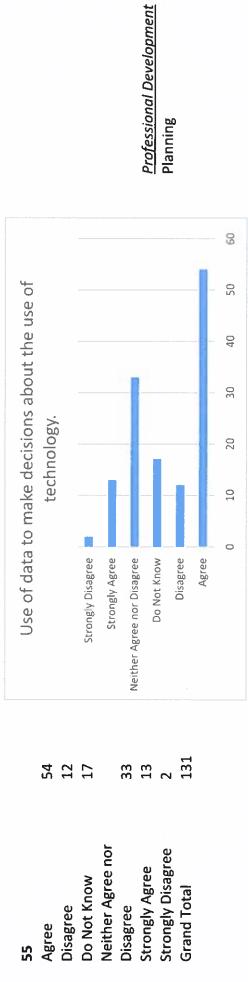
Professional Development

<u>Professional Development</u> Planning



54		- yo o'l	المحديد محواصفا محمو معافمه محمول
Agree	56	Use of (use of data for reflecting on my professional
Disagree	10		practices.
Do Not Know	13		
Veither Agree nor		Strongly Disagree	
Disagree	36	Strongly Apree	
Strongly Agree	14		
Strongly Disagree	2	Neither Agree nor Disagree	
Grand Total	131	Do Not Know	
		Disarree	
		Agree	





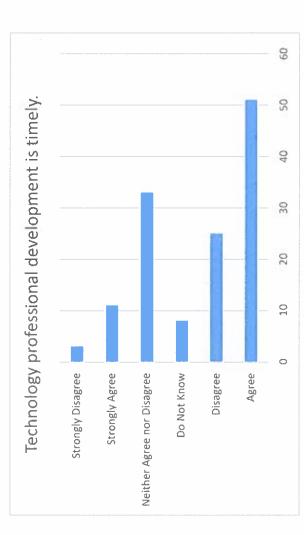
<u>Professional Development</u> Planning

Use of technology to participate in professional development activities, e.g. online workshops, hands-on training in a computer lab.	Strongly Disagree Strongly Disagree Strongly Agree Neither Agree nor Disagree Do Not Know To Not Know To Strong Development Disagree Agree Strong Disagree Agree Strong Disagree Strong Disagr	"In my school" Educators in charge of professional development use data from topics and activities. 57 57 57 57 64 57 64 64 64 64 64 64 66 67 68 61 61 61 62 63 64 64 64 64 66 67 68 67 68 67 64 64 64 64 64 64 66 67 66 67 66 67 67 67 7 7 7 7 7 7	Strongly Disagree Strongly Agree Strongly Agree Neither Agree nor Disagree
Agree 68 Disagree 11 Do Not Know 6	Neither Agree nor Disagree 27 Strongly Agree 2 Strongly Disagree 2 Grand Total 131	"In my school" Educators in charge of professional develop 57 Agree 23 Disagree 23 Do Not Know 23	e nor e gree

Technology professional development is timely.

- 28

								-
51	25	Ø		33	11	m	131	
Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Strongly Disagree	Grand Total	



Technology professional development is relevant.

59

Professional Development

Quality

Professional Development

Quality

2

60

50

40

30

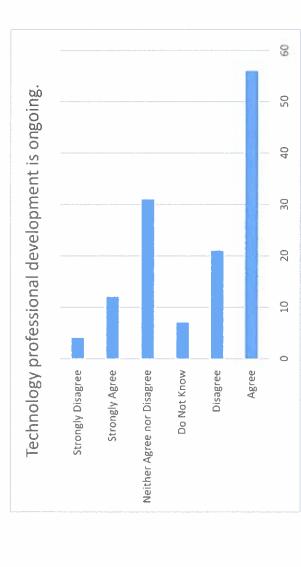
20

10

Technology professional development is ongoing.

60

								Neit
56	21	7		31	12	4	131	
Agree	Disagree	Do Not Know	Neither Agree nor	Disagree	Strongly Agree	Strongly Disagree	Grand Total	



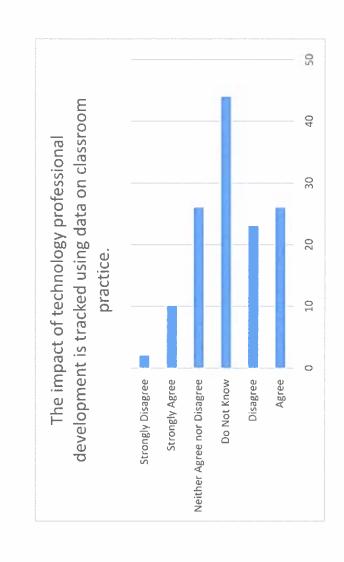
Teachers have an opportunity to evaluate technology professional development activities in which they participate. 61

		40 45
es in		
uate ivitie		ŝ
evalı t act	1.1	30
y to men ate.		25
unit ^v elopr icipa		20
port deve part		10 15 20 25 30 35
n op onal they		10
Teachers have an opportunity to evaluate inology professional development activitie which they participate.		Ś
rs ha prof wh	disagree gly Agree Disagree Not Know Disagree Agree	0
Teachers have an opportunity to evaluate technology professional development activities in which they participate.	Strongly Disagree Strongly Agree Neither Agree nor Disagree Do Not Know Disagree Agree	
41 27 18	28 10 131	
Agree Disagree Do Not Know Neither Agree nor	Disagree Strongly Agree Strongly Disagree Grand Total	

<u>Professional Development</u> Quality Professional Development Quality The impact of technology professional development is tracked using data on classroom practice.

62

26 23	44	26	10	2	131	
Agree Disagree	Do Not Know	Disagree	Strongly Agree	Strongly Disagree	Grand Total	



The impact of technology professional development is tracked using data on student learning.

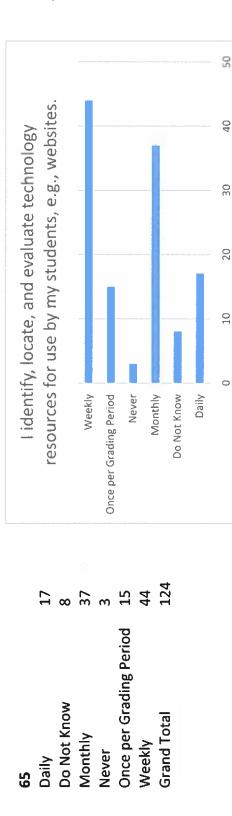
	I ne impact of technology professional	development is tracked using data on student	learning.	Strongly Disagree Strongly Agree Strongly Agree Do Not Know Disagree Agree	
63	Agree 34	Disagree 19	Do Not Know 40	26 10 2 131	

<u>Professional Development</u> Quality <u>Professional Development</u> Quality

ching with technology.	<u>Teaching and L</u> Instruction						
l consult publications, online journals, or other resources to identify research-based practices I can use in teaching with technology. 64 Daily	I consult publications, online journals, or other resources to identify research-based practices I can use in teaching with technology.						
r other resources to i	l consult p resources ¹ can u	Weekly	Once per Grading Period	Never	Monthly	Do Not Know	Daily
l consult publications, online journals, or 64 Daily	ot Know hly per Grading Period	Weekly 22 Grand Total 174					

I identify, locate, and evaluate technology resources for use by my students, e.g., websites.

ŝ



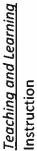
and Learning

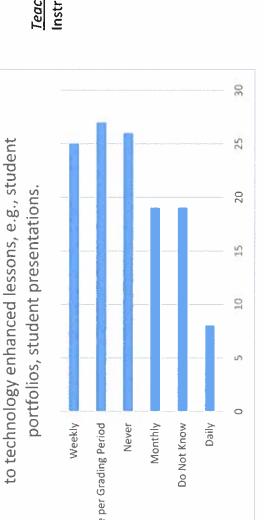
Teaching and Learning Instruction

I apply performance-based student assessment to technology enhanced lessons, e.g., student portfolios, student presentations.

ed student assessment

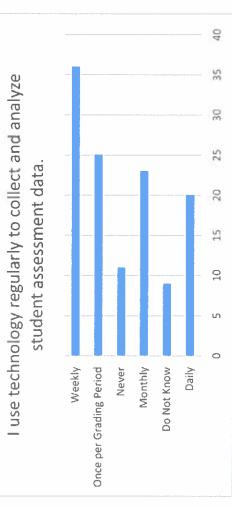
66		non vlane l	l anniv narformanca-hase
Daily	ø		
Do Not Know	19	to techno	to technology enhanced
Monthly	19	por	portfolios, student
Never	26		
Once per Grading Period	27	Weekly	
Weekly	25	Once per Grading Period	
Grand Total	124	Never	
		Monthly	
		Do Not Know	





I use technology regularly to collect and analyze student assessment data.

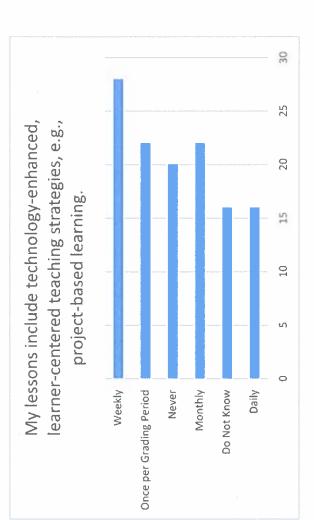
					Once)		
	20	6	23	11	25	36	124	
D/	Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



<u>Teaching and Learning</u> Instruction

My lessons include technology-enhanced, learner-centered teaching strategies, e.g., project-based learning.

	16	16	22	20	22	28	124
68	Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total



I apply policies and practices to enhance online security and safety.

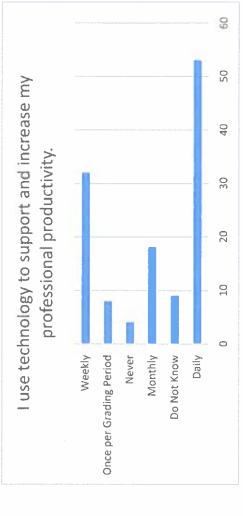
69 Daily 58 Do Not Know 16 Monthly 11 Never 7 Once per Grading Period 5 Weekly 27 Grand Total 124	
I apply policies and practices to enhance online security and safety. Once per Grading Period Never Nonthly Do Not Know Daily	
cies and	10
s and practices to ei security and safety.	20
safety.	30
hance	- 64
nilno	20
U	60
	70

Teaching and Learning Instruction Teaching and Learning Instruction I use technology to differentiate instruction for students with special learning needs.

l use technology to differentiate instruction for students with special learning needs.					
l use tech stud	Weekly	Once per Grading Period	Never	Monthly	Do Not Know
40 13	16 6	4 10 39	124		
70 Daily Do Not Know	Monthly Never	Once per Grading Period	Grand Total		

I use technology to support and increase my professional productivity.

	53	ნ	18	4	∞	32	124	
71	Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



Teaching and Learning

45

40

ŝ

30

25

20

15

9

ŝ

0

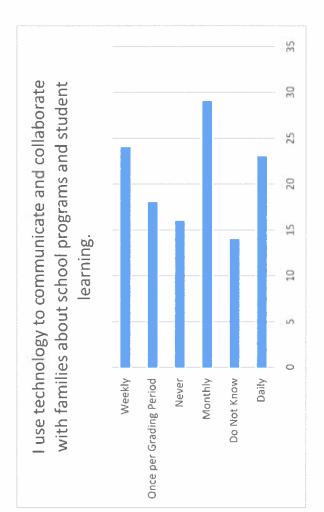
Daily

Planning

Teaching and Learning Instruction I use technology to communicate and collaborate with families about school programs and student learning.

72

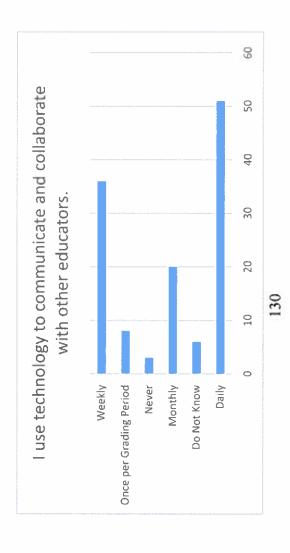
23 14	29	16	18	24	124	
			ding Period			
Daily Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



I use technology to communicate and collaborate with other

educators.

	51	9	20	m	∞	36	124
73	Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total



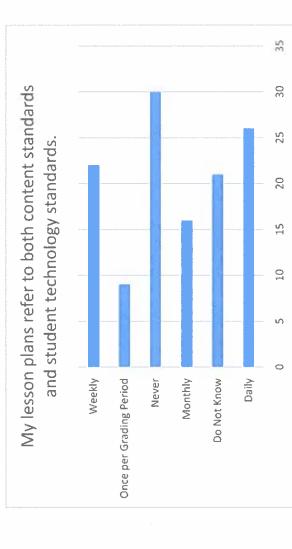
-

Teaching and Learning Planning

Teaching and Learning Planning My lesson plans refer to both content standards and student technology standards. 74

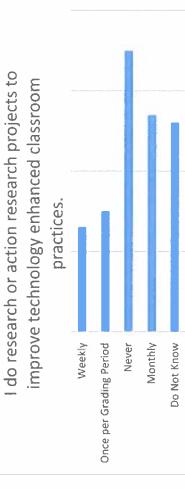


26	21	16	30	6	22	124	
Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



I do research or action research projects to improve technology enhanced classroom practices.

	∞	26	27	35	15	13	124	
75	Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



Teaching and Learning Planning Teaching and Learning Planning

40

30

20

10

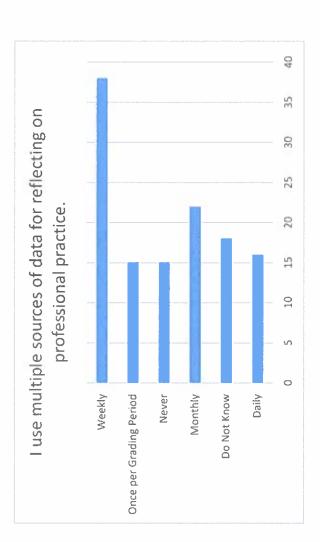
0

Daily

I use multiple sources of data for reflecting on professional

practice. 76

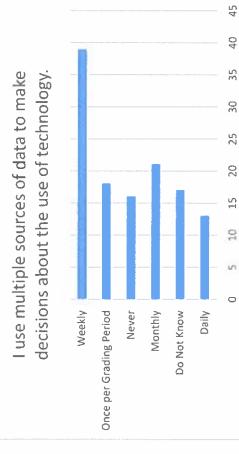
16	18	22	15	15	38	124	
Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



I use multiple sources of data to make decisions about the use of technology.

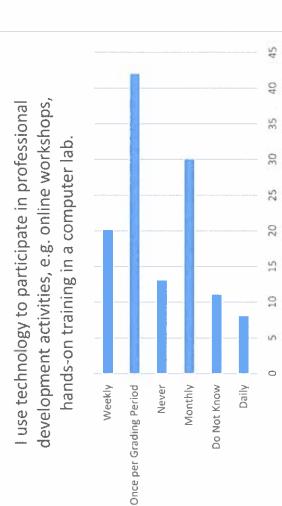
77

13	17	21	16	18	39	124	
Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



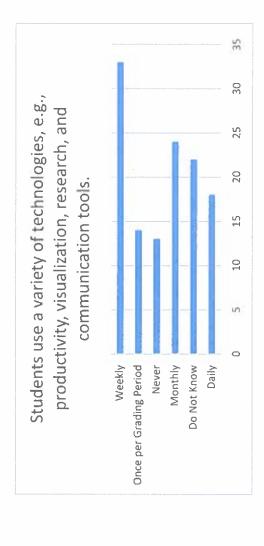
Teaching and Learning Planning <u>Teaching and Learning</u> Planning I use technology to participate in professional development activities, e.g. online workshops, hands-on training in a computer lab. 0

	∞	11	30	13	od 42	20	124	Once p
/8	Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



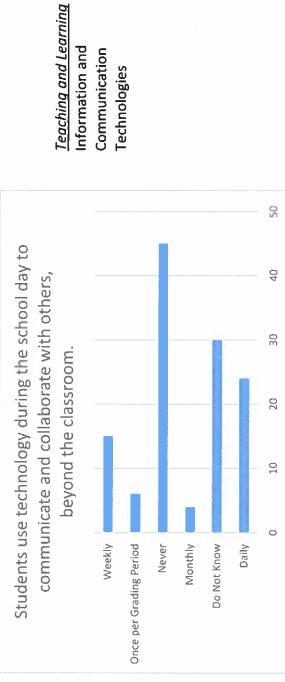
Students use a variety of technologies, e.g., productivity, visualization, research, and communication tools.

	18	22	24	13	14	33	124	
79	Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



<u>Teaching and Learning</u> Planning <u>Teaching and Learning</u> Information and Communication Technologies Students use technology during the school day to communicate and collaborate with others, beyond the classroom. SO

	24	30	4	45	9	15	124	
00	Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



Students use technology to access online resources and information as a part of classroom activities.

81 Daily Do Not Know Monthly Never Never Once per Grading Period Weekly Grand Total	24 16 15 15 43 124	Studen resources a weekly once per Grading Period Never Monthly	Students use technology to access online resources and information as a part of classroom activities. Weekly Grading Period Monthly
		Do Not Know	
		Daily	

Technologies

Teaching and Learning Information and Communication Technologies

134

20

8

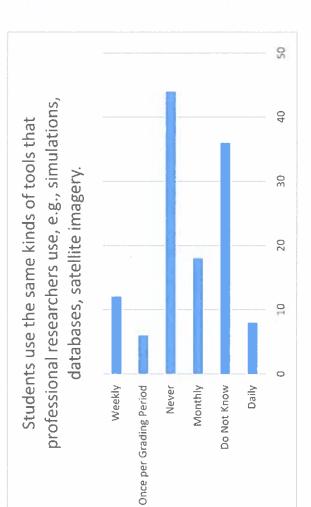
200

20

10

Students use the same kinds of tools that professional researchers use, e.g., simulations, databases, satellite imagery.

	8	36	18	44	9	12	124	
82	Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



<u>Teaching and Learning</u> Information and Communication Technologies

> Students work on technology-enhanced projects that approach real-world applications of technology. 5

00	Daily	Do Not Know	Monthly	Never	Once per Grading Period Weekly Grand Total	
	10	30	22	35	d 14 13 124	
		Students work on technology-enhanced projects	that approach real-world applications of	technology.	Weekly Once per Grading Period Never Monthly Do Not Know Daily	0 5 10 15
		enhanced	applicatio			20 25
		proje(ns of			30
		cts				35
						40

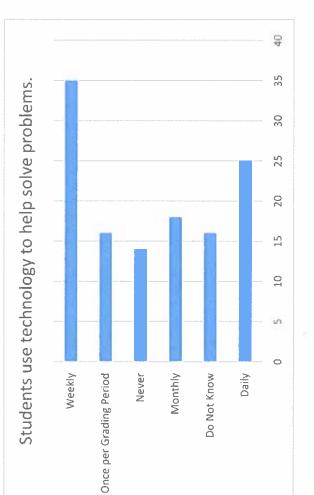
135

<u>Teaching and Learning</u> Information and Communication Technologies

Students use technology to help solve problems.

28
00

25 16 18 18 16 35 35	
Daily Do Not Know Monthly Never Once per Grading Period Weekly Grand Total	



Teaching and Learning

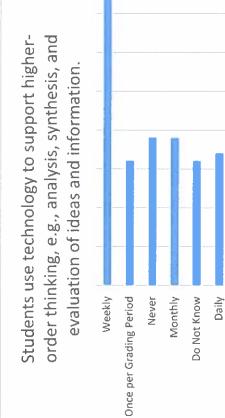
Information and

Communication

Technologies

Students use technology to support higher-order thinking, e.g., analysis, synthesis, and evaluation of ideas and information. 85

17	16	19	19	16	37	124	
Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



<u>Teaching and Learning</u> Information and Communication Technologies

136

40

ŝ

ŝ

25

20

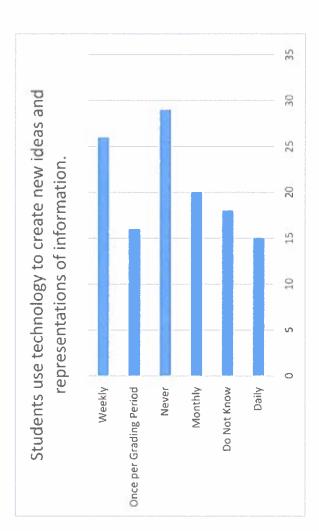
5

10

in

Students use technology to create new ideas and representations of information. 86

	15	18	20	29	16	26	124	
00	Daily	Do Not Know	Monthly	Never	Once per Grading Period	Weekly	Grand Total	



My teaching is more student-centered and interactive when technology is integrated into instruction. 87

53 5 28 22 123 №	
My teaching is more student-centered and interactive when technology is integrated into instruction. Strongly Disagree Strongly Agree Do Not Know Disagree Disagree	
ig is more /hen techr instru	C
more student- technology is instruction.	~ UC
-centere integra	30
d and ted into	40 50
	60

Teaching and Learning Information and Communication Technologies Impact of Technology **Teaching Practices**