Technology Curriculum

February 14, 2019

Roles and Responsibilities

James Crawford - Technology coordinator

- ▸ Technology support, Oversee budget, curriculum, direction of department, student instruction, and professional development, administration support

Jeannie Ciarleglio - Technology teacher

- ▸ Student instruction, technology support, professional development, administration support, and support of the technology coordinator

Wendy Glynn - Technology teacher assistant

- ▸ Supporting of teachers during instructional time and clerical tasks

Carl Stiles - ACES network manager

- ▸ Maintains network connectivity, network infrastructure, hardware, and software

Technology Opportunities for Students

Scheduled Classes
- Kindergarten
  - Once per cycle for 30 minutes
- First Grade
  - Once per cycle for 30 minutes
- Second Grade
  - Once per cycle for 30 minutes
- Third Grade
  - Twice per cycle for 30 minutes
- Fourth Grade
  - Once per cycle for 30 minutes

Non-scheduled times
- WBRS News
- Co-Teaching with classroom teachers
- Open tech lab for fifth and sixth grade
- Language learner student support
- Collaboration with teachers (Co-taught classes in classrooms) STEAM, DARE, Health
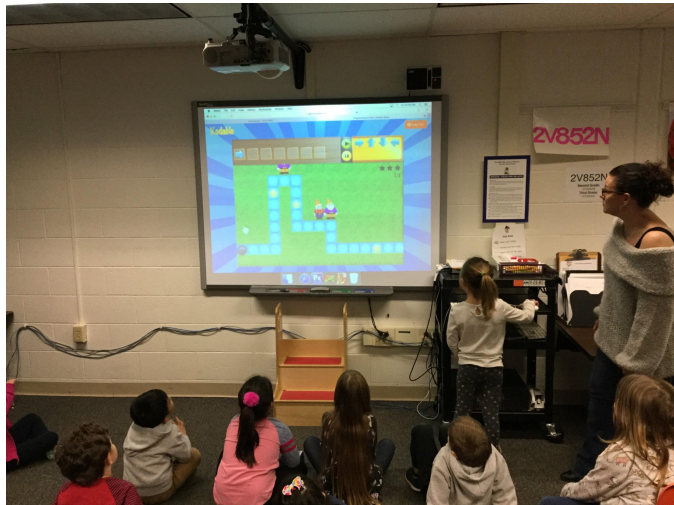
ISTE Standards

- **Innovative Designer:** Students use a variety of technologies within a design process to identify and solve problems by creating new, useful, or imaginative solutions.
- **Creative Communicator:** Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats, and digital media appropriate to their goals.
- **Knowledge Constructor:** Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts, and make meaningful learning experiences for themselves and others.
- **Computational Thinker:** Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.
- **Digital Citizen:** Students recognize the rights, responsibilities and opportunities of living, learning, and working in an interconnected digital world. They act and model in ways that are safe, legal, and ethical.
- **Empowered Learner:** Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.
- **Global Collaborator**: Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

Example of ISTE Standard Matrix

Project	ID					CC			KC		CT				DC		EL						GC	
	1a	1b	1c	1d	1e	2a	2b	2c	3a	3b	4a	4b	4c	4d	5a	5b	6a	6b	6c	6d	6e	6f	7a	7b
ABC Book	x	x	x	x	x	x		x	x		x		x		x	x					x	x	x	x
Coding (Kodable and Code-a-pillar)						x	x			x	x	x	x	x	x	x					x	x	x	x
Lexia			x	x						x	x	x			x	x	x	x	x	x	x	x		
Drawing on the iPad	x	x	x	x	x		x	x	x					x	x	x					x	x	x	x
Drawing on the Computer	x	x			x		x	x	x		x				x	x		x	x		x	x		
Intro to Lab. & Rules															x	x					x			x
Using a tablet	x	x	x	x	x		x	x	x		x		x		x	x	x	x	x	x	x	x		x
Using a desktop computer	x	x	x	x	x		x	x	x		x		x		x	x	x	x	x	x	x	x		x

Kindergarten Coding

First Grade Coding With Robots
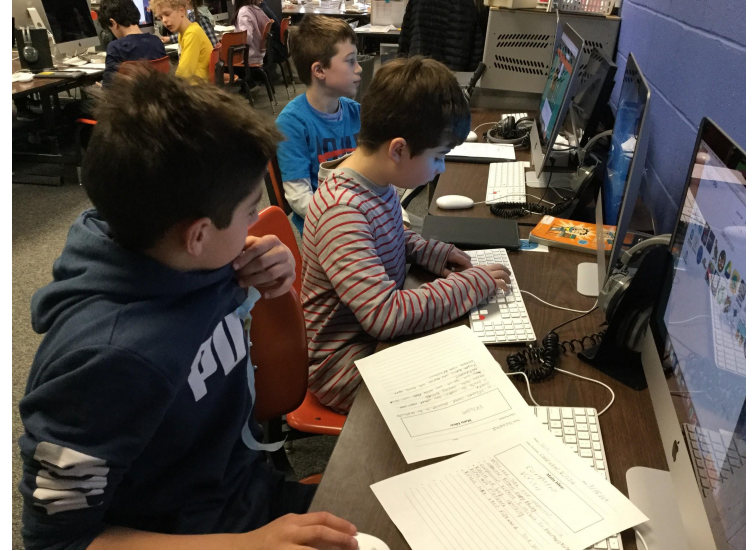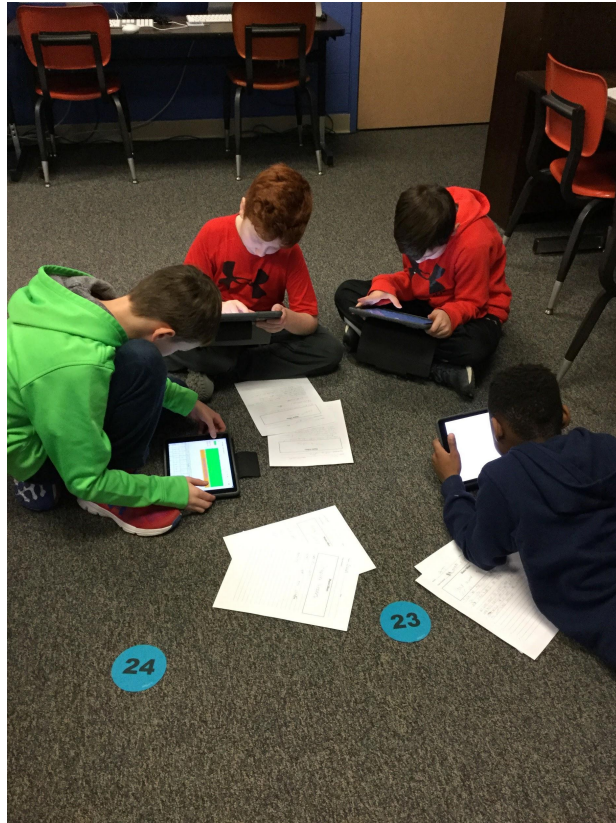
Second Grade Keyboarding Skills
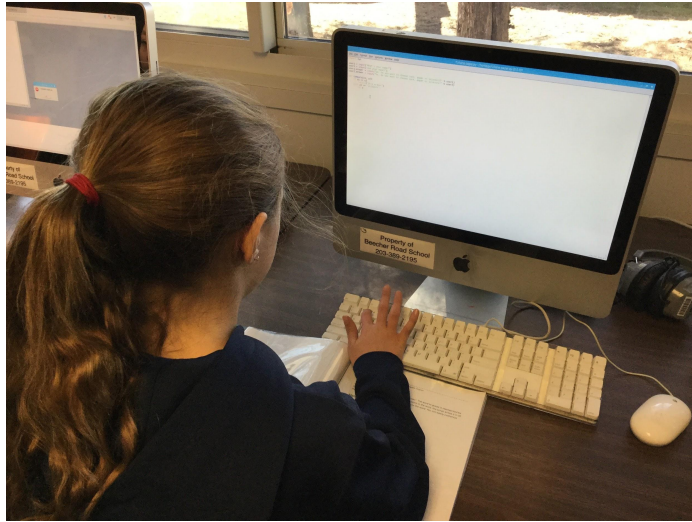
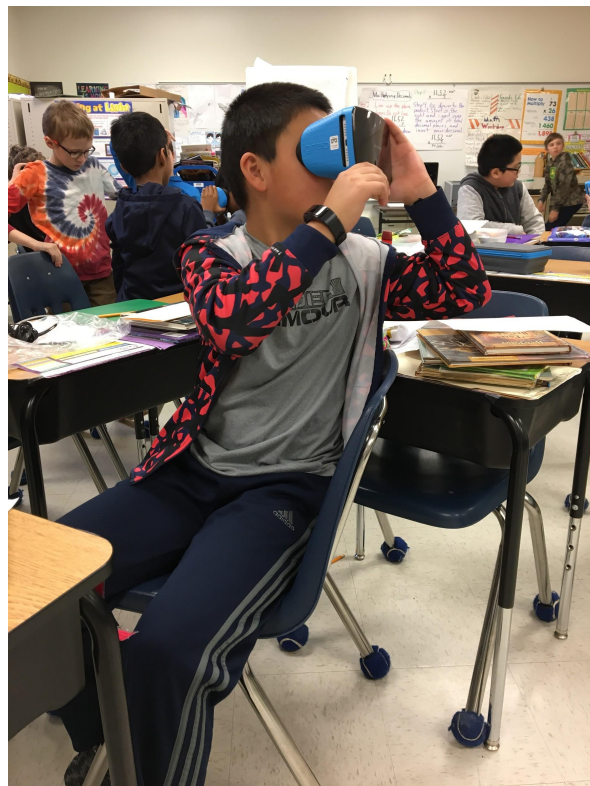**Third Grade Combining Literacy and Technology**

Fourth Grade Digital Citizenship Work Groups

Fifth Grade Coding with Python in Open Studio

Fifth and Sixth Grade Exploring Virtual Reality

Technology Opportunities for Teachers

- Co-teaching
- Professional Development
  - PD days
  - Grade level teams
  - One on one trainings
- Provide self-directed learning resources
- Additional opportunities provided by both the library staff and STEAM teacher

Technology provided to/available for teachers
- Smartboards
- Document Cameras
- Laptops
- iPads
- iPods
- VR goggles / Google Expeditions

Student Data Privacy

- Introduced in October of 2016 and modified in 2017 and 2018

- PA 16-189 significantly alters the way we can use online resources

- Requires the district and vendors to sign an agreement on how student data will be used and accessed