

Moon Area School District Curriculum Map

Course: Computer K

Grade Level: Kindergarten

Content Area: Computer/Technology

Frequency: Full-Year Course, 1 day every 5 days

Big Ideas:

1. Input and output devices are used to navigate, organize and troubleshoot technology.
2. The use of an iPad fosters digital literacy and promotes active learning.
3. Digital citizenship skills are essential for engaging in cyber communities and making informed, responsible choices online.
4. Keyboarding skills are essential as a primary tool for communication.
5. Coding develops skills in math, problem solving, communication and creativity.
6. iPads are a tool used to learn, create and discover new things.

Essential Questions:

7. How do input and output devices work together to make a computer system?
8. How can you use iPad skills to explore and learn about the world around us in a fun and safe way?
9. What strategies can you use to stay safe, be responsible, and be kind online?
10. Why should you learn how to use the keyboard quickly and efficiently?
11. How can you use coding to better understand technology?
12. How can you use the iPad to help you learn, create, and discover new things?

Primary Resource(s) & Technology:

Promethean Board, iPads, Clever, Common Sense Education, NetSmartzKids
TypeTastic, Typing.com, Code.org, Kodable, Scratch Jr., Apple Suite, Microsoft Suite

Pennsylvania and/or focus standards referenced at:

www.pdesas.org
www.education.pa.gov

Big Ideas/EQs	Focus Standard(s)	Assessed Competencies (Key Content and Skills)	Timeline
1, 7, 6, 12	1A.CS.02 1A.CS.03 15.4.2.A 15.4.2.B 15.4.2.C 15.4.2.D	<ul style="list-style-type: none"> Name and describe parts of the computer including mouse, keyboard, monitor, headphones and printer. Identify the parts as either input or output. 	Ongoing
2, 8, 6, 12	1A.CS.02 1A.CS.03 15.4.2.B 15.4.2D 15.4.2G	<ul style="list-style-type: none"> Identify an iPad. Properly turn the iPad on and off, unlock the iPad and use the home button. Understand how to navigate the home screen, swipe between screens and switch between apps. Properly adjust the volume and use the zoom feature. Use simple troubleshooting strategies when problems occur including plugging in headphones and keyboard, adjusting volume, closing and reopening apps and restarting the iPad. Use Safari for simple web searches. Utilize translator to convert text or speech from one language to another. 	Ongoing
3, 9, 6, 12	1A.NI.04 15.4.2.L	<ul style="list-style-type: none"> Explain what passwords are and why we use them for online safety. Learn why it's important to be aware and respectful of people while using devices. Know when and why to take breaks from a device. Consider the feelings of people around you, even when engaged in fun online activities. 	Ongoing
4, 10, 6, 12	15.4.2.D	<ul style="list-style-type: none"> Locate letters and numbers on the keyboard independently. Use keyboard as an input device to communicate to the computer. 	Ongoing
5, 11, 6, 12	1.A.AP.08 1.A.AP.09 1.A.AP.10 1.A.AP.11 1.A.AP.12 1.A.AP.14 1.A.AP.15	<ul style="list-style-type: none"> Properly sequence step-by-step instructions for small tasks to more complex tasks. Properly write sequenced algorithms using arrows to represent directions. Identify patterns in a sequence and use them to create simple coding loops. Persevere through coding bugs by changing the sequence, following algorithm step-by-step, or trial and error to fix problems. Define coding, sequencing, loops and bugs. 	Ongoing