Moon Area School District Curriculum Map

Course: Computer 3

Grade Level: 3rd Grade

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. Digital citizenship skills are essential for engaging in cyber communities and making informed, responsible choices online.
3. Keyboarding skills are essential as a primary tool for communication.
4. Coding develops skills in math, problem solving, communication and creativity.
5. Creating documents, presentations and spreadsheets is crucial for success in 21st century careers.
6. Artificial intelligence is a tool we can use with technology to help solve problems, make smart choices and learn new things.
7. iPad assessment tools can help improve student performance across multiple subject areas.
8. iPads are a tool used to learn, create and discover new things.

Essential Questions:

9. How do input and output devices work together to make a computer system?
10. What strategies can you use to stay safe, be responsible, and be kind online?
11. Why should you learn how to use the keyboard quickly and efficiently?
12. How can you use coding to better understand technology?
13. How can documents, presentations and spreadsheets help you convey your thoughts and ideas effectively?
14. How can we use AI to create and explore new ideas with technology?
15. How can iPad assessment tools enhance third-grade student's understanding and engagement?
16. 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, FBI Safe Online Surfing, Typing.com, Code.org, Scratch, Apple Suite, Office 365, iWork

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, 9, 8, 16	15.4.5.C 1B.CS.01 1B.CS.02 1B.CS.03	• Determine and explain which parts of the computer are input and output devices and why. • Describe how devices and components of a computer interact using correct terminology. • Model how computer hardware and software work together as a system to accomplish tasks, including input, output, processor, sensor, and storage.	Ongoing
2, 10, 8, 16	15.4.5.B 15.4.5.L 1B.NI.05	• Define the term "password" and describe a password's purpose. • Understand why a strong password is important. • Practice creating a memorable and strong password. • Understand that it's important to think about the words we use, because everyone interprets things differently. • Identify ways to respond to mean words online, using S-T-O-P. • Decide what kinds of statements are OK to say online and which are not. • Discuss the characteristics of a credible website.	Ongoing
3, 11, 8, 16	15.4.5.D	• Use keyboard as an input device to communicate to the computer. • Utilize home row finger placement to type top row letters, enter, shift, space bar and backspace. • Demonstrate correct typing posture, proper finger placement and reaches, and maintain focus on the screen while typing.	Ongoing
4, 12, 8, 16	1B.AP.08 1B.AP.09 1B.AP.10 1.B.AP.11 1B.AP.12 1B.AP.15	• Compare and refine multiple algorithms for the same task and determine which is the most appropriate. • Properly write sequenced algorithms using arrows to represent directions. • Develop a programming plan to be used to check if the program is correct.	Ongoing

		• Identify patterns in a sequence and use them to create coding loops. • Persevere through coding bugs by changing the sequence, following algorithm step-by-step, or trial and error to fix problems. • Identify actions that correlate to input events. • Use conditional if/then commands to simplify coding algorithms. • Define coding, sequencing, loops, bugs, events and conditions. • Modify, remix, or incorporate portions of an existing program into one's own work, to develop something new or add more advanced features.	
5, 13, 8, 16	15.4.5.G 15.4.5.K 15.4.5.L	• Create a spreadsheet in Numbers that includes data, formulas, functions, and charts. • Format data correctly in Numbers. • Sort data efficiently in Numbers.	Ongoing
5, 13, 8, 16	15.4.5.G 15.4.5.K 15.4.5.L	• Create a slideshow presentation in PowerPoint that includes text. • Insert and format images and shapes in PowerPoint • Apply animations and transitions in PowerPoint • Select and use a design option, theme or background in PowerPoint.	Ongoing
6, 14, 8, 16	15.4.5.A 15.4.5.B 15.4.5.L 15.4.5.M	• Understand the concept of fairness, bias, and equity in AI systems. • Recognize blind spots in how AI is trained or applied. • Identify privacy concerns related to AI. • Understand the digital divide and how unequal access affects communities. • Envision possible futures with AI and discuss potential benefits and risks.	Ongoing
7, 15, 8, 16	15.4.5.A 15.4.5.D	• Properly use assessment tools to demonstrate learning.	Ongoing