MP1 Coding (Virtual)

Content Area: **G&T** Course(s): **G&T 4**

Time Period: Marking Period 1

Length: Virtual Status: Published

Activities

Unit A: Basics of Coding

- Students will:
- Relate coding to their lives at home and school.
- Design a game(s) using a coding program, Snap!, developed by Berkeley University.
- Understand what a sprite is and how to create one.
 - Students will:
- Understand what problems are best solved with sequencing.
- Use sequencing to revise code and complete coding challenges in an iterative process.
 - Students will:
- Review using lights, sounds, and animations in sequences.
- Understand what problems are best solved with sequences.
- Use sequences to revise code and complete coding challenges in an iterative process.
 - Students will:
- Understand what problems are best solved with sequencing.
- Use sequencing to revise code and complete coding challenges in an iterative process.
 - Students will:
- Understand what problems are best solved with loops.
- Use loops to revise code and complete coding challenges in an iterative process.

• Students will:

- O Demonstrate understanding of basic programming functions introduced in Level A curriculum: lights, sounds, animations, movements.
- Learn about the beginning steps of the Design Thinking Process: Ask, Imagine, Plan.
- Use a combination of drawing and speaking to narrate their thinking processes.
- Explain ideas to peers and teacher audibly and clearly, with guidance and support from teacher, to improve their initial designs.