Unit 4b Tech: Computer Science

Content Area: **Technology**
Course(s): **Technology 3**
Time Period: **Marking Period 4**
Length: **MP4**
Status: **Published**

Essential Question

What strategies can we use for solving problems with technology?

Big Ideas

Students identify algorithms in everyday life, and determine how algorithms can be used to accomplish tasks and solve problems. Students determine what is known and what needs to be known regarding a problem and develop a problem statement in order to solve a problem or complete a task.

Enduring Understandings:

8.1.5.AP.3: Create programs that include sequences, events, loops, and conditionals.

8.1.5.AP.4: Break down problems into smaller, manageable sub-problems to facilitate program development.

8.1.5.AP.5: Modify, remix, or incorporate pieces of existing programs into one's own work to add additional features or create a new program.

8.1.5.AP.6: Develop programs using an iterative process, implement the program design, and test the program to ensure it works as intended.

Activities and Assessments:

- Computational thinking pre-post assessments
- Computational thinking: Algorithms
- Computational thinking: Sequences

- Computational thinking: Loops
- Code Monkey coding challenge
- Mystery Animal

Resources:

Learning.com

Code Monkey

Kodable