Unit 19: CODE: Real-Life Algorithms

Unified Arts
Computer Science 1, Computer Science K
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10 Days
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Unit Summary

In this lesson, students will relate the concept of algorithms back to everyday real-life activities by planting an actual seed. The goal here is to start building the skills to translate real-world situations to online scenarios and vice versa.

Student Learning Objectives

Students will learn to ...

- name various activities that make up their day.
- decompose large activities into a series of smaller events.
- arrange sequential events into their logical order.

Essential Questions

• How do we use algorithms in our real life?

Enduring Understandings

Students will understand that ...

• it is possible to create algorithms for the things that we do everyday.

Application

Students will be able to independently use their learning to ...

- create a list of steps that you can follow to finish a task.
- translate real-world situations to online scenarios and vice versa.

Skills

Students will be skilled at ...

- identifying logical sequential steps necessary to complete a task.
- using previously acquired computer science skills and applying them to creating an alogrithm.

Resources

For the Student:

- Components for Planting Seeds: Container (such as empty milk carton), potting soil, seed, water
- <u>Real-Life Algorithms: Plant a Seed Worksheet</u>
- Assessment Worksheet: <u>Daily Algorithms</u>
- Scissors
- Glue

For the Teacher:

- Lesson Video
- Teacher Lesson Guide
- Print one <u>Real-Life Algorithms: Plant a Seed Worksheet</u> for each student
- Print Assessment Worksheet: Daily Algorithms for each student