

Unit 19: CODE: Real-Life Algorithms

Content Area: **Unified Arts**
Course(s): **Computer Science 1, Computer Science K**
Time Period: **June**
Length: **10 Days**
Status: **Published**

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 algorithm.

Resources

For the Student:

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

For the Teacher:

- [Lesson Video](#)
- Teacher Lesson Guide
- Print one [Real-Life Algorithms: Plant a Seed Worksheet](#) for each student
- Print Assessment Worksheet: [Daily Algorithms](#) for each student