# Unit 5 Technology-Computer Science

Content Area: **Technology**
Course(s): **Technology 1**
Time Period: **Marking Period 4**
Length: **January/February/March**
Status: **Published**

## Essential Questions

How can I use computer programming to complete a task?

## Big Ideas

Computers follow precise sequences of steps that automate tasks. Complex tasks can be broken down into simpler instructions, some of which can be broken down even further.

## Enduring Understandings

8.2.2.ED.1: Communicate the function of a product or device.

8.2.2.ED.3: Select and use appropriate tools and materials to build a product using the design process.

8.1.2.AP.3: Create programs with sequences and simple loops to accomplish tasks

8.1.2.AP.4: Break down a task into a sequence of steps.

8.1.2.AP.5: Describe a program's sequence of events, goals, and expected outcomes

8.2.2.NT.1: Model and explain how a product works after taking it apart, identifying the relationship of each part, and putting it back together.

8.2.2.NT.2: Brainstorm how to build a product, improve a designed product, fix a product that has stopped working, or solve a simple problem.

## Activities and Assessments

- KIBO Robots-Class Pet

- Computational thinking: Patterns

- Computational thinking: directions

- A New Student in Class

- Coding with Code Monkey Jr.

- FInding information

- Databases: Classifying Data

Resources:

Learning.com

Code Monkey

KIBO Robots