

Instructional Day: 14

Topic Description: This lesson provides an introduction to the concept of variables.

Objectives:

The students will be able to:

- Explain the concept of variables
- Create examples of variables
- Explain the concept of iteration
- Create examples of iteration

Outline of the Lesson:

- Finish Presentations (25 minutes)
- Journal Entry (5 minutes)
- Make Variable Example (15 minutes)
- Enhance Variable Example (10 minutes)

Student Activities:

- Finish Presentations.
- Complete journal entry.
- Participate in a discussion of the Make Variable example.
- Enhance the variable example.

Teaching/Learning Strategies:

- Finish Presentations
- Journal Entry: Describe in your own words what the word variable means.
 - Work individually and then share with elbow partner.
- Make Variable Example
 - Ask a few students to share their responses to the journal entry.
 - Ask questions that guide students to the notion that it is the same in a program—a variable is a name that represents a value that can be changed.
 - Make the variable example with the students (variable example.sb) having the students help you and build their own (in pairs) at the same time.
 - Start by explaining that you want to make a game where you earn points for picking healthy foods and lose points for picking unhealthy ones.
 - Ask questions that get students to navigate you to
 - The variables
 - Add the sprites for the banana, cheesie poofs and text that says “Click on food to eat it”.
 - Make a variable” called Good Nutrition Points.
 - Increase by 1 every time you choose the banana
 - Explain that this is an example of iteration.
 - Decrease by one when you click on the cheesie poofs
 - What happens when the green flag is clicked?

- Explain that this is an example of initialization.
- Enhance Variable Example
 - Have student pairs enhance the variable example by
 - Adding a food that is worth 2 points when clicked on.
 - Adding a food that is -3 points when clicked on.

Resources:

- No additional resources needed