

Teacher: Benson Leung
Unit: Computational Thinking

Class: 7th / 8th Grade

Lesson Plan 1
Date:

Essential Question: [Danielson 1c] How can we print statements in Java?

Standards: [Danielson 1c] **7-8.CT.7** Design or remix a program that uses a variable to maintain the current value of a key piece of information.

Materials: [Danielson 1d, 1e, 3c] notebook, pencil, computers

Learning Objective: [Danielson 1a, 1c]
SWBAT code print statements in Java by using CS50 IDE.

Academic Vocabulary: [Danielson 3a]
Variable, String, IDE, Java, live coding

Do Now/Warm-up Activity (6 minutes): [Danielson 3d]

“What are some ways people greet each other?” Have students answer this question in their notebooks. Share out once timer ends. They may dance if finished early. Segway into how computer programs can greet their users.

Mini Lesson – Step by Step Procedures (15 minutes): [Danielson 1a , 3a]

Read slides 3-5 to students.

Have students go to: ide.cs50.io and setup an account.

Live code “Hello, World!” in Java.

Define **variable** on slide 7.

Live code how to use name as a variable and print it out.

Assessments [Danielson 1f, 3b, 3d]

Checks for understanding through questioning. Final code for Mad Libs. BFD (Binary feedback device)

Work Period (*They do*) (20 minutes):

[Danielson 1e, 2b, 2c]

Students will work in pairs and follow the instructions on slide 9 on how to create Mad Libs.

Differentiation: [Danielson 1b, 1c, 3e]

ELLs: translations available with technology and on slides.

SPED: N/A

Small Groups: Created based on misconceptions if needed

Summary: [Danielson 3c, 3d, 4a] (5 minutes)

- Using BFD (Binary feedback device), use your thumbs to show understanding of today’s topic.
- What problems/errors did you or your partner encounter?
 - How did you manage to solve this issue?
- What else do you think we can do with this code?

Misconceptions: [Danielson 3d]

1 – Does not know where to start

2 – Unable to create an account

3 – “Hello, World!” not printing

4 – Missing variables

5 – Missing quotes for String

6 – Forgetting ;

7 – Missing/Adding {