

Modified from Unit 4 - Variables, Conditionals, and Functions ('21-'22)

<https://studio.code.org/s/csp4-2021/lessons/5>

Lesson 5: Conditionals Explore

Unit Assessment:

Learning Target: I can trace simple programs that use variables, expressions, and variable assignment.

Success Criteria/Objectives: I know I am successful when I can:

- Use appropriate vocabulary to describe variables, expressions, and variable assignment.
- Evaluate expressions that include numbers, strings, and arithmetic operators.

Warm Up (5 minutes)

Discuss: Imagine you want to make a decision about what to wear to an event. Name two pieces of information you'd want. How would you use them in your decision?

Activity (30 minutes)

[Go through these slides](#) and [speaker notes](#)

Group: Group students in pairs.

Distribute: Give each pair of students:

- A small stack of red, yellow, and blue sticky notes/scrap of paper
- A pen/pencil
- 3 plastic baggies
- A dry erase marker to share with another group

Wrap Up (10 minutes)

Video: CS Principles: Conditionals - [Part 1 Boolean Expressions](#) As a class watch the video on Boolean expressions. Journal: Have students add the following words and definitions with an example to their journals: Boolean Value and Boolean Expression

Practice:

Beginner: <https://www.learnjavaonline.org/en/Conditionals>

Advanced

Quiz on the Conditional Operator

<https://chortle.ccsu.edu/Java5/Notes/chap43/chap43quizRev2.html>

UDL:

visuals-images/videos/real world examples/anchor charts/reference reinforcement opportunities/pronunciation/call and response/checklists/modified reading/chunk down verbal instruction/hetero grouping/redirection/timed activities, breaks to support

mental fatigue/read alouds/limited distractions/preview/frontload
vocabulary/repetition; modeling; small group instruction; frequent check ins/ graphic
organizers/preferential seating; translations

Standards

CSP Conceptual Framework

AAP-2 - The way statements are sequenced and combined in a program determines the computed result. Programs incorporate iteration and selection constructs to represent repetition and make decisions to handle varied input values.

CSTA K-12 Computer Science Standards (2017)

AP - Algorithms & Programming

Equity framework-Historically Responsive Literacy - cultural competence (identity), and socio-political consciousness (criticality); *need to figure out how to do this; find diverse texts written by diverse authors*

1) identity development (who we say we are, who others say we are, and the people we desire to be)

2) skill development - see objectives

3) intellectual development - see objectives

4) criticality (read, write, think, and speak in ways to understand power and equity and promote anti-oppression)