

Boolean Operators

Lesson time: 30-60 Minutes

LESSON OVERVIEW

Using Boolean operators, students will write code that compares values to make logical decisions.

LESSON OBJECTIVES

Students will:

- Use Boolean operators to compare values.
- Apply Boolean logic, such as AND, OR, and NOT, to compose complex Boolean comparisons.

ANCHOR STANDARD

Common Core Math Standards

- **7.EE.4:** Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.

Additional standards alignment can be found at the end of this lesson

TEACHING SUMMARY

Getting Started

- 1) [Introduction](#)

Activity: Boolean Operators

- 2) [Online Puzzles](#)

TEACHING GUIDE

MATERIALS, RESOURCES, AND PREP

GETTING STARTED

1) Introduction

Creating some sample boolean expressions - both simple and complex - is an excellent warm-up activity before the puzzle stages. Some examples have been included in the slide deck. The slide deck also has extra practice related to expressions that the students will have seen in the puzzles.

ACTIVITY: BOOLEAN OPERATORS

2) Online Puzzles

Head to [CS in Algebra stage 14](#) in Code Studio to get started programming.



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