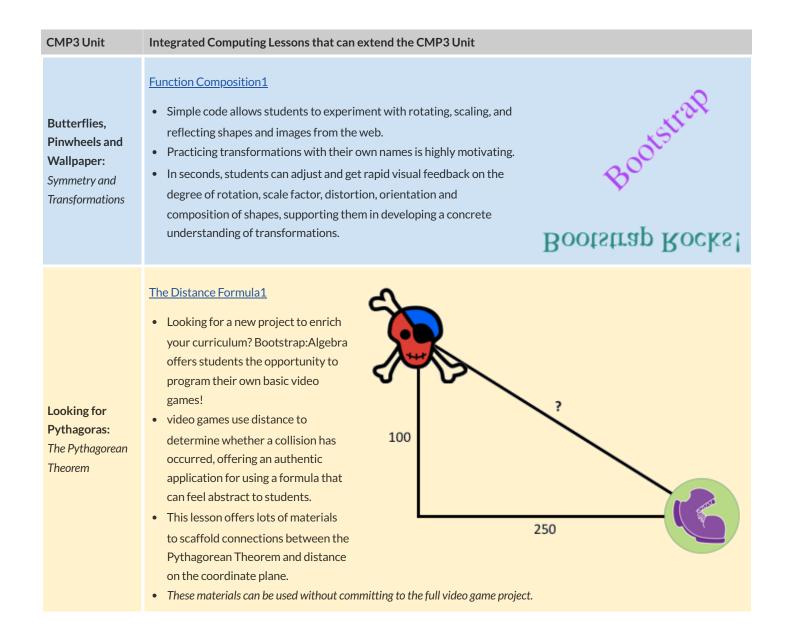


## Materials for Teachers using Connected Mathematics (Grade 8)

Like CMP3, Bootstrap is field-tested and research-validated, with a focus on deep exploration that supports and engages all kinds of learners. Our integrated computing modules have been proven to support math transfer and can be mixed and matched to supplement what you're already doing in your classroom. Teaching 8th grade math with Bootstrap also addresses many CS Standards, including: 2-AP-11, 2-AP-17, 2-AP-19, 2-AP-21, 3A-DA-11, 3A-AP-14, 3A-AP-17, 3A-AP-18, 3B-DA-05, 3B-AP-14 and 3B-AP-21.



Match each set of examples to its corresponding function definition.

$$f(x) = 7(x - 5)$$

$$f(x) = x \div 4$$

| x  | f(x)              |
|----|-------------------|
| -5 | $3 \times -5 + 4$ |
| 0  | $3 \times 0 + 4$  |
| 5  | $3 \times 5 + 4$  |

$$f(x) = 3x + 4$$

$$f(x) = x + 1$$

Function
Junction:
The Pythagorean
Theorem

| х  | f(x)                |
|----|---------------------|
| -5 | $7 \times (-5 - 5)$ |
| 0  | $7 \times (0-5)$    |
| 5  | $7 \times (5-5)$    |

| x  | f(x)   |
|----|--------|
| -5 | -5 ÷ 4 |
| 0  | 0 ÷ 4  |
| 5  | 5 ÷ 4  |

| х  | f(x)   |
|----|--------|
| -5 | -5 + 1 |
| 0  | 0 + 1  |
| 5  | 5 + 1  |

## Function Notation1

- Looking for more scaffolding around function notation? We've got you covered with workbook pages and Desmos card sort activities!
- This lesson makes connections between functions that generate images in the programming environment to function notation in math.

Excited to learn more? Our materials are free of charge, and we love training teachers to use them! Sign up for a workshop today!

 $www.Bootstrap World.org \mid contact@Bootstrap World.org$