# Rotation 2: Representing and Interpreting Functions

Content Area: **Mathematics**
Course(s):
Time Period: **Default**
Length: **Rotation 2**
Status: **Published**

## Summary

Create and interpret graphs of functions that represent stories.

## Standards

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|---|---|
| MA.8.F.A.2 | Compare properties (e.g. rate of change, intercepts, domain and range) of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). |

## Materials

***Desmos Grade 8 Unit 5***

**Lesson 5: The Tortoise and the Hare Interpreting Graphs of Functions**

● I can explain the story told by the graph of a function.

● I can find and interpret points on the graph of a function.

● I can determine whether a function is increasing or decreasing based on whether its rate of change is positive or negative.

**Lesson 6: Graphing Stories Creating Graphs of Functions**

● I can draw the graph of a function that represents a real-world situation.

● I can explain that graphs can appear different depending on the variables chosen.

**Lesson 7: Feel the Burn Comparing Representations of Functions**

● I can explain the strengths and weaknesses of different representations.

● I can compare inputs and outputs of functions that are represented in different ways.

**Lesson 8: Charge! Modeling With Linear Functions**

● I can use data points to model a linear function.

● I can decide when a linear function is a good model for data and when it is not.

**Lesson 9: Piecing It Together Modeling With Piecewise Linear Functions**

- I can calculate positive and negative slopes given two points on the line.
- I can describe a line precisely enough that another student can draw it.

## Assessment

- Observation
- Cool Downs
- Quizzes