

In Chapter 2, you will apply the big ideas listed below and reviewed in the Chapter Summary on page 140. You will also use the key vocabulary listed below.

## **Big Ideas**

- Representing relations and functions
- **(2)** Graphing linear equations and inequalities in two variables
- **11** Writing linear equations and inequalities in two variables

## KEY VOCABULARY

- domain, range, p. 72
- function, *p.* 73
- linear function, p. 75
- slope, *p. 82*
- rate of change, p. 85
- parent function, p. 89
- y-intercept, p. 89
- slope-intercept form, p. 90
- x-intercept, p. 91
- point-slope form, p. 98
- direct variation, p. 107
- correlation coefficient, p. 114

Whv?

- best-fitting line, p. 114
- absolute value function, *p. 123*
- transformation, p. 123
- linear inequality in two variables, *p. 132*

You can use rates of change to find linear models. For example, you can use an average rate of change to model distance traveled as a function of time.

## **Animated** Algebra

The animation illustrated below for Exercise 44 on page 111 helps you answer this question: If a whale migrates at a given rate, how far will it travel in different periods of time?



## Animated Algebra at classzone.com

**Other animations for Chapter 2:** pages 73, 86, 90, 95, 98, 102, 107, 115, 133, and 140