Now

In Chapter 2, you will apply the big ideas listed below and reviewed in the Chapter Summary on page 120. You will also use the key vocabulary listed below.

Big Ideas

1. **Performing operations with real numbers**
2. **Applying properties of real numbers**
3. **Classifying and reasoning with real numbers**

KEY VOCABULARY

- whole numbers, integers, *p. 64*
- rational number, *p. 64*
- opposites, absolute value, *p. 66*
- conditional statement, *p. 66*
- additive identity, *p. 76*
- additive inverse, *p. 76*

- multiplicative identity, *p. 89*
- equivalent expressions, *p. 96*
- distributive property, *p. 96*
- term, coefficient, constant term, like terms, *p. 97*
- multiplicative inverse, *p. 103*

- square root, radicand, *p. 110*
- perfect square, *p. 111*
- irrational number, *p. 111*
- real numbers, *p. 112*

Why?

You can use multiple representations to solve a problem about a real-world situation. For example, you can write an equation and make a table to find a skydiver's altitude over time.

Animated Algebra

The animation illustrated below for Exercise 54 on page 93 helps you answer this question: How does the time spent in free fall after a skydiver reaches terminal velocity affect the altitude of the skydiver?

A skydiver in freefall wants to open the parachute at an altitude of 2500 feet.

Move the sliders to determine when the parachute should open.

Animated **Algebra** at classzone.com

Other animations for Chapter 2: pages 73, 80, 90, and 98