Name _____ **Date** _____

Motion

Section 2 Velocity and Momentum

Scan *Use the checklist below to preview Section 2 of your book.*

- Read all section titles.
- Read all boldfaced words.
- Read all graphs and equations.
- Look at all the pictures and read their captions.

Review Vocabulary

Define speed *in a sentence to show its scientific meaning.*

speed _____

New Vocabulary

Use your book to define the words below.

velocity _____

momentum _____

Academic Vocabulary

The words positive *and* negative *are a natural pair. Explain how no number can be both positive and negative. Can any number be neither positive nor negative?*

negative _____

positive _____

_____

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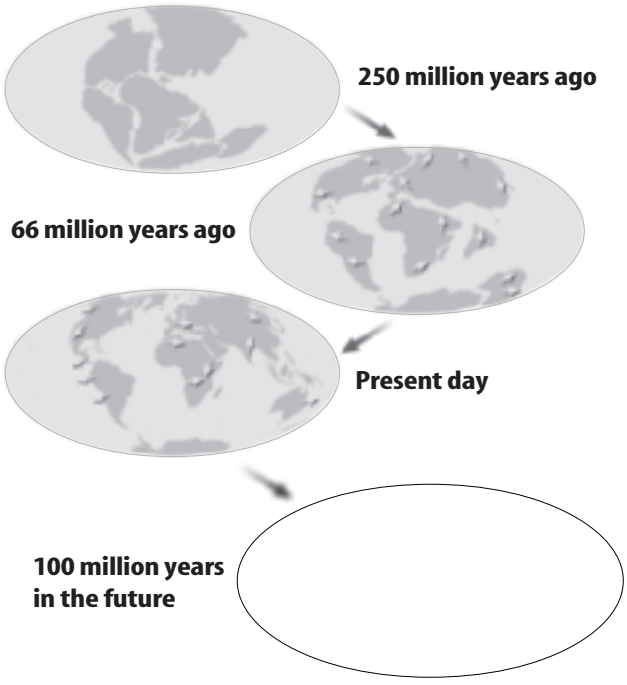
Section 2 Velocity and Momentum (continued)

Main Idea	Details
Velocity *I found this information on page _____.*	**Critique** *the phrase "airspeed velocity of a swallow."* _____ _____ **Model** *a swallow in flight.* • Use an arrow to show the swallow's velocity. • Label the arrow to indicate the swallow's speed.
Motion of Earth's Crust *I found this information on page _____.*	**Draw** *the shape of the continents as they may appear at 100 million years from the present day.* 

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Section 2 Velocity and Momentum (continued)

Main Idea

Details

Relative Motion

I found this information on page _____.

You are walking toward the back of a train that is moving forward with a constant velocity. The train's velocity relative to the ground is 30 m/s forward. Your velocity relative to the train is 1.5 m/s backward. How fast are you moving relative to the ground?

_____

_____

Momentum

I found this information on page _____.

Analyze the property of momentum *in words and with an equation. Include units and identify all variables.*

Words	Equation

Predict *why* momentum *is a property of moving objects, but not of stationary objects.*

_____

_____

_____

Connect It

Use your knowledge of velocity and momentum to describe how they are related.

_____

_____

_____

_____

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