

## Oceans: ERRATA

### Notes on the 2001 Edition

- Investigation 1: The Properties of Seawater
- Investigation 2: Ocean Waves
- Investigation 3: Ocean Currents and Circulation
- Investigation 4: Mapping the Ocean Floor
- Investigation 5: Changes in the Ocean Floor
- Investigation 6: Adaptations to the Ocean
- Investigation 7: Investigating a Place in the Ocean

#### Investigation 1: The Properties of Seawater

##### **Page O5, Properties of Seawater**

In fourth paragraph, the first sentence should read: "Liquids conduct electricity only if they contain ions." Omit the remainder of the sentence.

##### **Teacher's Edition, Page 32, The Density of Seawater**

Under the heading "The Density of Seawater," the sentence "If the weight of a body is less than the weight of water displaced, the body would actually rise upward. Objects rise when the weight of the body is equal to the weight of fluid displaced." The underlined "rise" replaced the word "float."

##### **Teacher's Edition, Page 45, Teaching Tip**

Under the heading "Teaching Tip," the sentence "The overall volume of the clay shape (clay plus the air it contains) increases while its mass stays the same." The underlined phrase replaced the word "clay."

#### Investigation 2: Ocean Waves

##### **Page O14, Waves And Wave Properties**

The first sentence should read "A wave is a motion that carries energy from one place to another."

##### **Teacher's Edition, Page 75**

After 2. a) For a given medium, the speed of the wave depends on the wavelength and period, but not the amplitude.

#### Investigation 3: Ocean Currents and Circulation

NONE

#### Investigation 4: Mapping the Ocean Floor

NONE

#### Investigation 5: Changes in the Ocean Floor

NONE

#### Investigation 6: Adaptations to the Ocean

##### **Teacher's Edition, Page 199, Paragraph 3**

Incorrect formula for pressure. It should read:  $p = \rho gh$ , whereas  $p$  is water pressure,  $\rho$  is the water density,  $g$  is the acceleration of gravity, and  $h$  is water depth.

#### Investigation 7: Investigating a Place in the Ocean

NONE

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