

## SECTION

## 1

## Enrichment

## Hot and Cold

**Directions:** Answer the following questions on the lines provided.

1. If you put a heated rock in a bucket of water, the temperature of the water will increase and the temperature of the rock will decrease until the temperature is equal for both substances. If you drop a heated rock in the ocean, will the same thing happen? Explain.

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2. Before the days of central heating, it was common to take a hot item to bed with you to keep you warm. Would you rather have a 10 kg heated brick or a 10 kg jug of hot water that are at the same temperature? Explain.

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3. Glass bottles have more mass than aluminum cans. When beverages in glass bottles are cooled, ten times as much heat must be removed as when the same beverages in aluminum cans are cooled. If you were a shop owner and had to pay the electric bills, would you rather sell beverages in glass containers or aluminum?

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4. During the winter, after a hot bath, is it more efficient to drain the tub immediately or let it sit? Why?

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