

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

**Characteristics of Waves** ▪ *Review and Reinforce*

## What Are Waves?

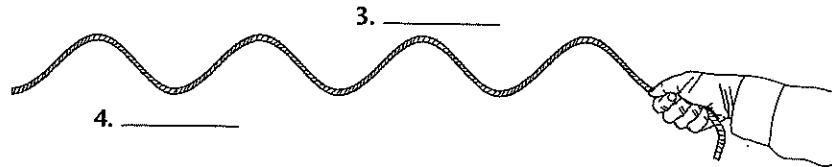
### Understanding Main Ideas

*Answer the following questions on a separate sheet of paper.*

1. What causes waves?
2. Using a spring as an example, describe the compressions and rarefactions of a wave.

### Building Vocabulary

*Label the trough and crest of the wave in the illustration below.*



*Answer the following questions about the wave shown above in the spaces provided.*

5. What medium is the wave traveling through?

\_\_\_\_\_

6. What is the source of energy causing the wave?

\_\_\_\_\_

\_\_\_\_\_

7. How do you know the wave is a mechanical wave?

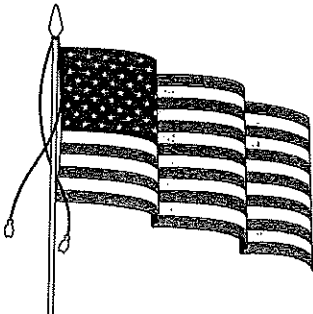
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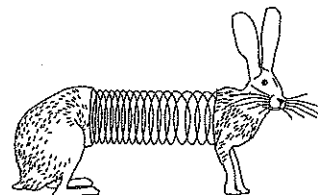
8. What type of mechanical wave is this?

\_\_\_\_\_

*Label each wave shown below as longitudinal or transverse.*



9. \_\_\_\_\_



10. \_\_\_\_\_

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**Characteristics of Waves** • *Guided Reading and Study*

**Properties of Waves** (pp. 515-519)

*This section describes the basic properties of waves. It also explains how a wave's speed is related to its wavelength and frequency.*

**Use Target Reading Skills**

*As you read about the properties of waves, make an outline using the red headings for the main ideas and the blue headings for the supporting ideas.*

Properties of waves
I. Amplitude A. Amplitude of Transverse Waves B.
II. Wavelength
III.

**Introduction** (p. 515)

1. What are four basic properties of waves?

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**Amplitude** (p. 516)

2. The maximum distance the particles of the medium carrying a wave move away from their rest position is called the wave's \_\_\_\_\_.

3. Explain what the amplitude of a water wave is.

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