

Name _____ Class _____ Date _____

Skills Worksheet

Directed Reading A

Section: The Nature of Waves

1. What is a wave?

WAVE ENERGY

2. A substance through which a wave can travel is a(n) _____.

3. Explain how energy is transmitted through a medium.

4. Explain why a wave moves toward the shore but the leaf floating on the surface of the water does not.

5. Explain the term *vibration*.

6. Waves that require a medium are called _____.

7. Name two types of waves that require a medium.

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Directed Reading A continued

8. List three examples of waves that can transfer energy without going through a medium.

9. Waves that do not require a medium are called _____.

TYPES OF WAVES

10. What are the two main types of waves?

11. How does a surface wave form?

Match the correct definition with the correct term. Write the letter in the space provided.

_____ 12. a part of a longitudinal wave where the particles are crowded together

_____ 13. to be at right angles

_____ 14. the highest point of a transverse wave

_____ 15. a part of a longitudinal wave where the particles are spread apart

_____ 16. a wave in which the particles of the medium move perpendicularly to the direction the wave is traveling

_____ 17. the lowest point between each crest of a transverse wave

_____ 18. a wave in which the particles of the medium move back and forth along the path that the wave moves

a. transverse wave

b. compression

c. trough

d. perpendicular

e. rarefaction

f. crest

g. longitudinal wave