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Waves: Sound & Light Unit Study Guide

1. Waves transfer
2. Which of the following types of waves requires a medium: microwave, visible light, sound wave or x -rays?
3. A wave can make a leaf bob up and down on the water, but it cannot move the leaf toward the shore. This is because waves only transfer
4. Which of these waves do NOT require a medium? Sound, ocean, radio, or seismic.
5. Which of the following is NOT a <u>property</u> of a wave? Amplitude, frequency, wavelength, refraction.
6. An echo is the result of a sound wave.
7. A section of a longitudinal wave where the particles are crowded together is called a
8. When the crests of one wave overlap the crests of another wave or waves, this is called:
9. Part of a longitudinal wave where the particles are spread apart is called is called a
10. Which of the following waves is an example of a mechanical wave: light, x-ray, radio or ocean wave?
11. What happens when sound waves travel around corners?
12. A substance through which a wave can travel is called a
13. The amplitude of a sound's waves determines the sound's
14. The medium through which sound waves travel affects the of the sound.

15. The electromagnetic spectrum is divided into reg	ions by
16. What wave interaction occurs when waves combinately amplitude than the individual waves had?	
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18. What kind of waves can be used to treat some ca	ncerous tumors?
19.Mechanical waves can <u>NOT</u> transport a. energy c. matt b. material d. answ	er ers b and c are correct
20.Compared to the speed of light, sound travelsa. faster.b. at about the same speed.c. slower.	
21.Sound travels faster in water than a. steel. b. air. c. aluminum d. space	
22.A singer shattering crystal glass with her voice isa. resonance.b. sound refraction.c. an echo.d. interference.	a demonstration of
23.Compared to its speed in air, the speed of light in a. slower. b. the same. c. faster.	water is
24.Refraction is caused by a. waves encountering a gap. c. displaced images. b. more than or d. changing wav	ne reflection. es speeds at a boundary.
	cannot occur at a boundary