

Item #: _____

Waves, Light, and Sound Review

Name: _____

1. Waves are disturbances that transfer _____.
2. The material that a wave travels through is called a _____.
3. Light can travel through a _____.
4. The distance from crest to the next crest is the _____.
5. Match the diagram that illustrates each:
 - a. Reflection
 - b. refraction
 - c. diffraction
6. In the diagram, the wavelength is between ____ and ____

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7. Sound cannot travel through a _____.
8. Sound is caused by the _____ of particles.
9. The speed of light is _____ than the speed of sound.
10. Sound travels fastest through _____ materials.
11. Sound travels faster when the temperature is _____.
12. Constant exposure to sounds of more than 90 dB can cause _____.

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13. Electromagnetic waves can travel through a medium or through a _____.
14. Each type of electromagnetic energy has a different _____.
15. Cancer cells are destroyed by _____.
16. The only electromagnetic energy that we can see is _____.
17. Ozone blocks out _____ rays.
18. Heat is _____ radiation.
19. Name the energy given off:
 - a. Warm kitten _____
 - b. Image of a broken arm _____
 - c. Sunburn _____
 - d. a TV antenna _____
 - e. cooks food quickly _____
 - f. the colors we see _____

20. Light can travel through a medium like glass or through a _____.
21. We see objects because the objects _____ light.
22. The bending of light is _____.
23. A light colored, smooth surface will _____ light more than a dark, rough surface.
24. A black shirt will tend to _____ light energy.
25. Clear glass will _____ light.

Complete the multiple choice section (write the entire answer)

1.	2.	3.	4.
5.	6.	7.	8.
9.			

