

## WAVES: ENERGY IN MOTION MOVIE

NAME \_\_\_\_\_ hr \_\_\_\_\_ /24

1. Waves carry energy but not \_\_\_\_\_ from one place to another.
2. Low point = \_\_\_\_\_
3. High point = \_\_\_\_\_.
4. Difference in height = \_\_\_\_\_
5. Distance between crests = \_\_\_\_\_.
6. \_\_\_\_\_ waves particles move in the same direction the wave moves.
7. Areas where particles are closer together = \_\_\_\_\_
8. Areas where particles are farther apart = \_\_\_\_\_
9. \_\_\_\_\_ waves occur in media that are fixed at both ends.
10. The energy in standing waves cannot leave the \_\_\_\_\_.

### MATCH:

11. Seismic waves                      through electrical fields
12. Sound waves                        through earth
13. Electromagnetic waves            through air
14. LAW OF REFLECTION: The angle the wave hits a barrier equals the \_\_\_\_\_ it is reflected away.
15. REFRACTION- light is \_\_\_\_\_ as it goes through different materials.
16. Transforming of a straight wave into a curve is called \_\_\_\_\_.
17. An object's natural frequency depends on its weight, \_\_\_\_\_ and other variables.
18. Sounds within 20 and 20,000 hertz are audible to the human \_\_\_\_\_.
19. Low frequency = \_\_\_\_\_ wavelengths
20. High frequency = \_\_\_\_\_ wavelengths
21. Sounds above 20,000 hertz are called \_\_\_\_\_.
22. A normal conversation is about \_\_\_\_\_ decibels.
23. The pain threshold is \_\_\_\_\_ decibels.
24. All waves transfer \_\_\_\_\_.