

Energy and Waves

Study Guide for Test

February 5, 2015

1. What are the names of 2 types of mechanical waves?

2. The types of waves our ears are taking in and are interpreted by the brain as sound are called _____.

3. The types of waves our eyes are taking in and are interpreted by the brain as sight are called _____.

4. Energy that travels in the form of waves through a vacuum (empty space) is called _____.

5. The electromagnetic spectrum is

6. Humans can see light from _____ nm to _____ nm on the _____.

7. The _____ and _____ of a wave determine what color we will see.

8. The number of times a wave forms and passes a certain point is called _____.

9. Draw and label the parts of a transverse wave.

10. Draw and label the parts of a longitudinal wave.

11. When light hits an object and the object takes it in, the light is being _____ by the object.
12. When light cannot pass through an object so it goes around it, the light is being _____ by the object.
13. When something blocks the path of light causing the light to go in a different direction, it is called _____.
14. Energy that we know is present due to the presence of heat is called _____. That type of energy is present because of the _____ of particles.
15. Thermal energy is transferred from one object to another by _____, _____ or _____.
16. Transferring means that energy moves from _____ place or object to _____.
17. Heat is always transferred from something _____ to something _____.
18. When does the transfer of thermal energy stop?
19. When heat is transferred by direct contact it is called _____.
20. When heat is transferred by indirect contact it is called _____.
21. When heat is transferred through waves it is called _____.

22. Thermal energy can be felt as heat because the particles are moving very _____ and they have a lot of _____ which they transfer back and forth to each other.

23. White light is made up of _____ colors.

24. Transparent means

25. Translucent means

26. Opaque means

27. What affect does mass have on the amount of energy an object contains?

28. Energy is

29. Work is

30. Transform energy means to

31. When we measure the size of a wave, we are measuring its _____.

32. The _____ is the highest point of a wave.

33. The _____ is the lowest point of a wave.

34. When our eyes tell our brain we are seeing something other than the way it actually is, it is called an _____.