

1. When you turn on an I-POD does electrical energy transform into sound energy or does sound energy turn into electrical energy?
2. How does mass affect kinetic energy?
3. What different types of energy are released when a firework explodes?
4. What type of energy is produced when the nucleus of an atom is split apart?
5. What is potential energy? Give an example.
6. The greater the frequency of a sound wave, the _____ the pitch of the sound is.
7. If a bagel has 195 calories, and a slice of bread has 71 calories, which food has the least amount of energy? Explain why?

8. Draw a diagram that shows what happens to light rays that strike a convex lens.

9. Draw a diagram that shows what happens to light rays that strike a concave lens.

10. Do sound waves travel faster through dry air or through a pool of salt water? Why?

11. Do particles move faster in cooled items or heated items? Why?

12. What is convection?

13. What is conduction?

14. What happens to the potential energy and the kinetic energy of a toy car that rolls down a track from a position at the top?
15. What is the difference between infrared waves and visible light? Be sure to include information about their frequency and wavelength.
16. What are the three methods of heat transfer? Give an example of each one.
17. In which direction does thermal energy naturally flow? Why?