

Energy Conversion Activity

Answer Key

Worksheet:

1. The flashlight
2. Light energy
3. The light energy was converted into mechanical/kinetic energy (moving fins!).
4. Chemical energy (from the batteries)
5. Sound, light, and mechanical or kinetic energy (It depends what battery operated devices were used)
6. Mechanical or kinetic energy
7. Elastic energy is greatest when stretched out the farthest.
8. Mechanical or kinetic, sound, and maybe even heat energy
9. You have to twist the knobs, mechanical or kinetic energy is associated with winding the knobs.
10. Mechanical or kinetic energy is inputted, this was converted into the elastic energy of a spring which was then converted into mechanical or kinetic energy exhibited when the toy moved.
11. Mechanical or kinetic energy
12. Sound energy
13. Light energy
14. Chemical energy
15. To use the chemical energy stored in food simply eat it! The chemical energy is converted into thermal energy by your body.
16. Electrical energy
17. Sound, mechanical or kinetic, and thermal energy (It depends on the electrical devices used for the activity).
18. Mechanical or kinetic energy
19. The "electrical energy" on the spoon (actually static electrical potential energy).
20. Mechanical or kinetic energy was used to rub the plastic spoon on the wool converting the energy into electrical energy stored on the spoon. Some of this electrical energy was then converted into the mechanical or kinetic energy of the pieces of packing foam.