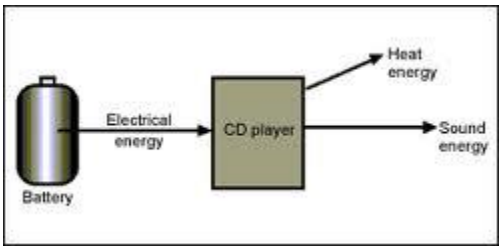
Standard: Students will be familiar with the forms and transformations of energy.

Directions: Explain each energy transformation diagram. Use complete sentences.

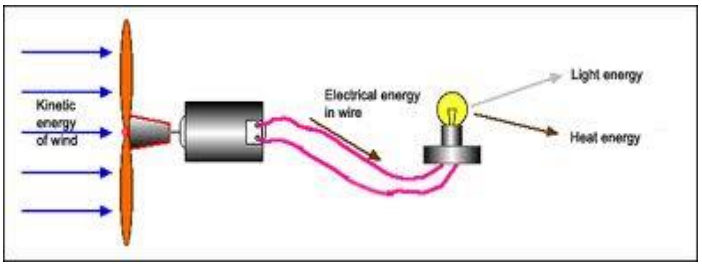
1.


2.




3.


4.




1. _____
2. _____
3. _____
4. _____

Explain Energy Transformations

ANSWER KEY FOR THE TEACHER

1. Electrical energy provides energy for the lamp. The lamp then provides light energy to its surroundings.
2. The battery is a source of chemical potential energy. When connected, the battery's chemical energy is transformed into electrical energy. The electrical energy provides power to the CD player. The CD player transforms the energy into sound energy and thermal energy.
3. This is a battery powered shaver. The battery is a source of chemical potential energy. The chemical energy is transformed into electrical energy. The electrical energy is transformed into mechanical-motion energy and moves the metal shaver/blades. The mechanical-motion energy is also transformed into a buzzing sound energy.
4. The wind provides kinetic energy and moves the blades of the fan. This is mechanical-motion energy. The energy from the fan motor moves into the wires, transforming the mechanical energy into electrical energy. The electrical energy powers the light bulb. The light bulb transforms the electrical energy into light energy and thermal/heat energy.