ENERGY TRANSFORMATION QUESTIONS

- 1. Write the energy transformation equation for the following:
- (a) a battery powered portable flashlight
- (b) an electric drill with a rechargeable battery
- (c) fireworks exploding
- (d) an arrow is shot horizontally off a bow and flies through the air
- (e) a camper raises an axe to chop a chunk of wood
- (f) a lawnmower with a gasoline engine cuts a lawn
- (g) a hotdog is grilled on a gas barbecue
- Come up with an energy transformation that you experience in everyday life where sound energy is the final product.
- 3. Give an example of each of the following energy transformations
- (a) electrical energy -----> thermal energy
- (b) kinetic energy -----> sound energy
- (c) gravitational potential energy ----- elastic potential energy
- (d) chemical potential energy ------ thermal energy ------ kinetic energy
- (e) electrical energy -----> kinetic energy + thermal energy + sound energy