

Learning Target: *I will be able to explain and demonstrate how energy is transformed from one form to another.*

Energy Transformations Lab



Define the following terms:

Electrical energy _____

Thermal energy _____

Sound energy _____

Mechanical energy _____

Solar energy _____

Chemical energy _____

Nuclear energy _____

Magnetic energy _____

Materials:

Hair clippers, speakers, candy, pencil sharpener, hot plate, flashlight, power drill

Procedure:

1. Today you will be in groups of 3 and you will rotate from each energy transformation station.
2. As you rotate from station-to-station list in order the energy transformations that occur at each station.

Materials	Energy Transformations	Potential or Kinetic Energy
Plugged in hair clippers		
Plugged in speakers		
Eating candy		
Pencil sharpener		
Plugged in Hot plate		
Flashlight turned on		
Power drill drilling		

Lab Analysis Questions

1. How is the law of conservation of energy demonstrated in your lab? _____

2. How is some of the energy lost at the lab stations? _____

3. How would you alter this lab to help students better understand how energy is transformed from one form to another? _____

4. Write a 5-sentence summary of how energy is transformed from one form to another. _____

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