Sources of Electricity Test

Name: _____

Part A: Match the type of energy to its example.

Energy	Example
• sound	heater or the sun
• light	energy stored in atom
• Chemical	energy to power computer
• thermal	light bulb
• nuclear	radio or human voice
• mechanical	battery
• electric	physical motion

All of the above forms of energy can be transformed from one type to the other and back. True or False?

Part B: Fill in the blanks.

energy, heat, chemical, light, mechanical, physical movement

1. Photosynthesis is an example of how _____ energy is transformed into _____energy.

2. When plants are consumed the _____ energy is now being stored by the humans or animals that eat them.

3. That chemical energy is eventually converted into _____ energy when the animals or humans generate _____.

4. Some of the energy that humans expend to move is released as _____ energy.

5. The key point to remember is that _____ is constantly being converted into other forms of itself.

Part C: Fill in the blanks.

geothermal, electricity, biomass, fossil fuels, rocks, steam, coal, sediment, wind, animal, hydro, soil, water, natural gas, decayed, heat, turbines, generator, electrical

1. Coal, _____, and oil are all types of fossil fuels.

2. Fossil fuels are old _____ plant and animal material.

3. The pressure and _____ of layers of rocks, _____, water and other sediment caused the plant and _____ material to change and transform into _____, oil and natural gas.

4. Fossil fuels are burned in a power plant in order to create _____, which is used to spin _____ which are connected to a generator that is responsible for creating _____.

5. _____ is a form of renewable energy that uses scraps of material that were previously living.

6. Burning biomass can be used to generate _____ by producing heat and steam which can spin turbine blades.

7. _____ energy uses the heat from the Earth's core as a means of producing electricity.

8. The movement of water is used to create _____ electricity.

9. The blades on the top of the tower/turbine catch the _____ and spin. These blades are connected to a long shaft, which runs down the tower to a _____ that converts the movement of the wind into _____ energy.