Name	Period	_ Date
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ENERGY & ELECTRICITY NOTES

(Motion, Forces, and Energy pages 147-169)

1. What are the two basic kinds of energy? What is the difference between them?

2. Energy comes in diffe	rent forms:
6	nergy: potential energy stored in the chemical bonds that hold compounds together.
6	nergy: energy of light and other forms of radiation.
6	nergy: form of energy associated with the position and motion of an object.
6	energy: total potential and kinetic energy of the particles in an object.
6	nergy: potential energy stored in an atom; released during nuclear reaction.
6	energy: energy of electric charges.
3. A change from one fo	orm of energy to another is called an
Example: a toaster trans	sforms <u>electrical</u> energy to <u>thermal</u> energy to toast bread.
Example: Chemical energ	y in food is transformed into thermal energy in your body to stay warm.

Example: A dryer transforms <u>electrical</u> energy to <u>mechanical</u> and <u>thermal</u> energy to turn and dry clothes.

5. Describe the energy tran	nsformations that happen when you strike a match. List them in the
6. What energy transforma	tion occurs in a solar panel?
7. How is the chemical ener	rgy in coal released?
	the steps in which a power plant transforms the energy in fossil fuels cal energy. (Hint: there are 4 types of energy involved)
0#1	her Vocabulary You Need to Know!
	tricity and Magnetism, pages 44 - 45 and 64 - 65 to find the definitions
Vocabulary Word	Definition
Electric Current	
Electric Circuit	
Conductor	
Insulator	
Series Circuit	
Parallel Circuit	

4. What energy transformation allows you to send a rubber band flying across the room?