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Unit 10 Study Guide

Directions: Draw a line from each vocabulary word to it's definition or hint.

1. Electric motor

The buildup of electric charge on something

2. Static electricity

If copper wire is attached to the positive and negative ends of a battery, this would be the effect

3. Electric current

A circuit with a battery, a switch, three lightbulbs, and more than one path for energy to flow would be considered this.

4. Electromagnet

A machine the changes electrical energy into energy of motion

5. Parallel circuit

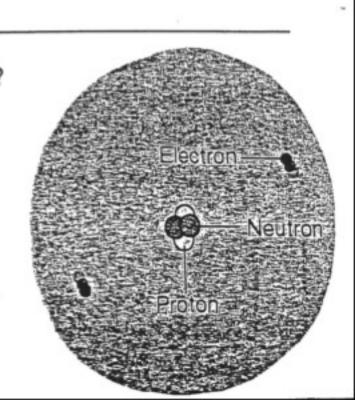
A device in which current produces magnetism

Directions: Write the correct answer

6. If you were to rub a comb with wool and held it near bits of paper, what would

happen?

7. What would be the electric charge of the following atom?



8. If the previous picture lost an electron, w	
9. What will happen if two objects, such as	balloons, with negative charges come near
one another?	
10. If a balloon is rubs with a wool cloth, w	hat will happen if it is held near a wall and
11. Imagine you hung two balloons by str touching. After a while you realize the the balloons gained opposite charges	ring close to one another but they are not ey are beginning to pull together. Do you think s or both gained a positive charge?
12. What is the purpose of a battery in a	circuit?
light up?	with a wooden switch, would your lightbulb ulbs and one of the light bulbs burn out, what
14 If a parallel circuit has times ing. its	

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What types of energy transfer does a blowdryer with	a motor have?
If glass on your TV has a positive charge, why do yo	ou think your IV would become
dusty before other furniture?	
magine if you were to hang three balloons from stri	ing. You give the first balloon a
positive charge and the second balloon a negative	
palloon a charge. Explain what would happen to ea	ach balloon if you held a stick
with a positive charge up to them.	
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Vhat is the difference between a parallel circuit a	nd a series circuit?
36	
· · · · · · · · · · · · · · · · · · ·	How are they different?
ow are generators and electromagnets similar?	How are tries different.
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