## Quiz Sheet: Chapter 17 Electricity

1. Name the three particles found in an atom and provide their charge.	2. Draw an example of a parallel circuit?	3. What are the two types of circuits?	4. A car has a 12 volt system. The headlights are on a 10 amps circuit. How much resistance do they have?
5. A refrigerators uses a current of 0.62 A and a voltage of 116 V. How much power does the refrigerator use?	6. What is an advantage of using series circuits?	7. How do electrons flow in a typical batteries?	8. What is a disadvantage to using series circuits?
9. What are the two main kinds of electric current?	10. An electric mixer draws 200.0 W of power. If the mixer is plugged into an outlet across a voltage of 115 V, what current is in the mixer's circuit?	11 is the voltage difference in potential between two points in a circuit. Also called voltage.	12. What is a disadvantage to using parallel circuits?
13. Explain the interaction between two like charge. Explain the interaction between two unlike charges.	at which charge (usually electrons) passes a given point.	15. Explain what happens when different materials rub together.	16. Materials that allow electrons to flow them are called Provide one example.
17. What kind of material has properties of both insulators and conductors? They are found in many new devise.	18. Describe the differences in resistance in a conductor and an insulator.	19. The attraction or repulsion on a charged particle that is due to an electric field is called	20. What kind of materials do not allow the flow of electrons through them? Provide one example.
21. What is the difference between an open circuit and a closed circuit?	22. A is a model of an electric circuit with standard symbols for the electrical devices.	23. Electrochemical cells contain electrolyte and two electrodes. Describe the electrolyte.	24. What are the units for Current?
25. What would the equation look like if you are trying to figure out current when using Ohmn's Law?	26. What surrounds any charged object?	27. A CD player has a current of 5 amps flowing through it. If the CD player uses 40 watts of power, what is the voltage of the CD player's battery?	28. What is resistance?
29. Draw the symbols for a light bulb.	30. Draw the symbols for an open switch and a closed switch.	31. What is the unit for Voltage?	32. The rate at which electricity does work or provides energy is called?
33. If an objects has a negative charge, in what direction does the force move?	34. Buildup of excess negative charge on an object is called?	35. When a positive charge is placed near a negative charge, what happens to the positive charge?	36. Draw an image that represents a battery on a schematic diagram.

37. If I want to increase the	38. What charge do most	39. What is the unit for	40. What is one way to
power in any device, what do I	atoms want to be?	Resistance?	increase resistance in a
need to do?			circuit?
41. What is the unit for	42. Draw an example of	43. If you added a resistor	44. What does voltage to
Electrical Power?	resistor?	to a circuit, how does that	within a circuit?
		affect the current?	
45. Draw a schematic diagram			
with the following items, in a			
series circuit and makes sure to			
label it.			
1. battery			
2. open switch			
3. 2 bulbs			
4. 1 resistor			