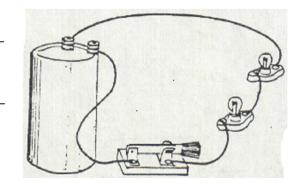
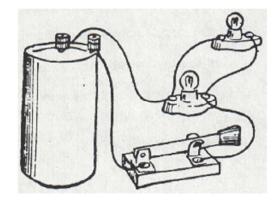
Working	With	Circuits	

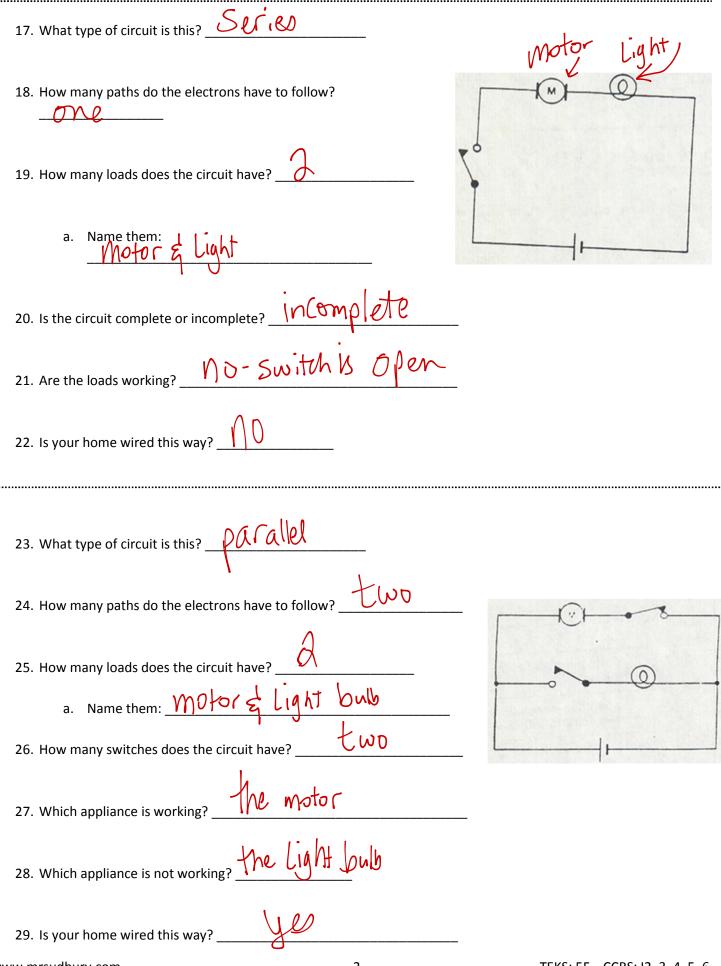
- 1. What kind of circuit it this? <u>Series</u>
- 2. How many paths do the electrons have to follow?
- 3. How many loads does this circuit have?
- 4. Is this circuit complete or incomplete? \_\_\_\_\_\_\_Complete
- 5. Are the loads working?



- 6. If one bulb were to burn out, the other bulb would (stay lit, shut off)
- 7. Adding another bulb would make the other two give off (less light) the same amount of light).
- 8. This (is is not) a good way to wire a home.
- 9. What type of circuit is this?
- 10. How many loads does this circuit have?
- 11. How many paths do the electrons have to follow? \_\_\_\_\_
- 12. Is this circuit complete or incomplete?
- 13. Are the loads working (will the bulbs light up)?



- 14. If one bulb were to go off, the other bulb would give off (more light the same amount of light).
- 15. Adding another bulb would make each bulb give off (less light), the same amount of light).
- 16. Is this a good way to wire a home?



30. What type of circuit is this? <u>parallel</u>	
31. How many paths doe the electrons have to follow?	
32. How many loads does the circuit have?	1 1 6 %
b. Name them: 2 motors & 2 bulbs	
33. How many switches does the circuit have?	
34. Which load(s) is/are working? Dranched 2 \$ 3	
35. Which load(s) is/are not working? かんれんし とし	
36. Is your school wired this way?	

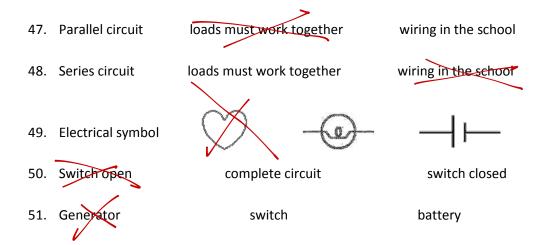
## **Check the Circuit:**

Each phrase below describes either a series or parallel circuit. Which one is it? Put a check ( $\checkmark$ ) or (X) in the proper box. Each one only applies to one type of circuit.

Description:	Parallel Circuit	Series Circuit
37. Only one path for the electricity to follow.		X
38. More than one path for the electricity to follow.	X	
39. Loads either work or shut off one at a time.	X	
40. All loads are on or all loads are off at once.		X
41. Appliances share the voltage.		X
42. Appliances do not share the voltage.	X	
43. Not a good way to wire a home.		X
44. A good way to wire a home	X	
45. An extra bulb makes the others less bright.		X
46. An extra bulb does not change the brightness of the other bulbs.	X	

## **Throw One Out:**

In each of the following sets of terms or pictures, one of the terms/items does not belong. Cross out the one that does not match.



## **Drawing Electrical Symbols:**

Draw the following electrical symbols.

52.	Open switch		56.	Wire	
53.	Closed switch		57.	Motor	
54.	One dry cell	1	58.	Light bulb	
55.	Two dry cells	14-			

## True or False:

Choose whether the sentence is true or false.

- 59. (T) A dry cell gives static electricity.
- 60. (T) Static electricity lights our homes.
- 61. (F) Static electricity causes lightning.
- 62. (T) A safe place to stay during a lightning storm is under a tree.
- 63. (F) Electricity is useful.
- 64. (F) Electricity can be dangerous.
- 65. (F) This school is wired in parallel.
- 66. (T) Your home is wired in series.
- 67. (F) A parallel circuit lets you shut off one appliance at a time.
- 68. (T) Appliances wired in parallel share the electrical pressure (aka voltage).