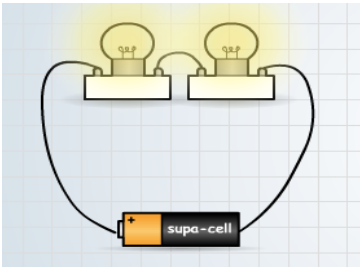
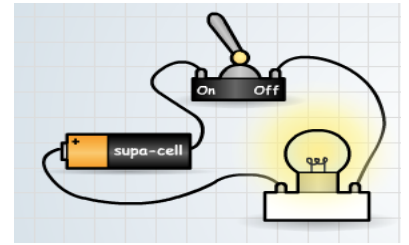


Name _____

Date _____



the blobz guide to **ELECTRIC CIRCUITS**



Go To: andythelwell.com/blobz/guide.html



Section 1: What Makes Circuits Work?

Read the Information pages and answer these questions.



1. Explain what a complete circuit is. _____

2. Why won't an incomplete circuit work? _____

3. Name 2 sources of power. _____

4. If you are using more than one battery in a circuit, how should they be connected?



Activity: Click on the green arrow and complete the activity.

5. How many working circuits did you find? _____



Quiz: Take the 5-question quiz and record your score here. _____



Section 2: Conductors and Insulators

Read the Information pages and answer these questions.



6. What is a conductor? _____

7. What is an insulator? _____

8. Why are wires typically coated with plastic? _____

9. What type of material are most conductors? _____

10. What is graphite? _____



Activity: Click on the green arrow and complete the activity.

11. Fill in the chart with all of items from the activity.

Conductors	Insulators



Quiz: Take the 5-question quiz and record your score here. _____



Section 3: All About Switches

Read the Information pages and answer these questions.



12. Why are switches useful? _____

13. Explain how a switch works. _____

14. Name 2 types of switches. _____

15. List 5 items that have switches. _____



Activity: Click on the green arrow and complete the activity.

16. Fill in the chart with all of items from the activity.

No Switches	One Switches	Many Switches



Quiz: Take the 5-question quiz and record your score here. _____



Section 4: Changing Circuits



Read the Information pages and answer these questions.

17. What happens when you add more bulbs to a circuit? Why does this happen?

18. What happens when you add more batteries to a circuit? Why does this happen?

19. How does the length of the wire affect the circuit? _____



Activity: Click on the green arrow and complete the activity.

20. What is a fair test? _____



Quiz: Take the 5-question quiz and record your score here. _____



Section 5: Circuit Diagrams



Read the Information pages and answer these questions.

21. Draw the components for a circuit diagram.

Name the Component	Diagram of Component



Activity: Click on the green arrow and complete the activity.



Quiz: Take the 5-question quiz and record your score here. _____

22. Draw a working circuit diagram of how a doorbell works. Use the correct diagram pictures for the components.