

Name:

Grade:

REVISION FOR FINAL QUIZ-UNIT 5-ELECTRIC CIRCUITS

1. What is electricity and how it can be used?

.....
.....

2. Complete the statements about the components of a simple circuit. Choose your answer from the table below.

Source	Conductor	Circuit	Load

..... Is a complete path around which the electricity can flow.

..... Provides electrical energy or power. Battery is an example of this component.

..... It allows the electric current to pass through. Wire is an example of this component.

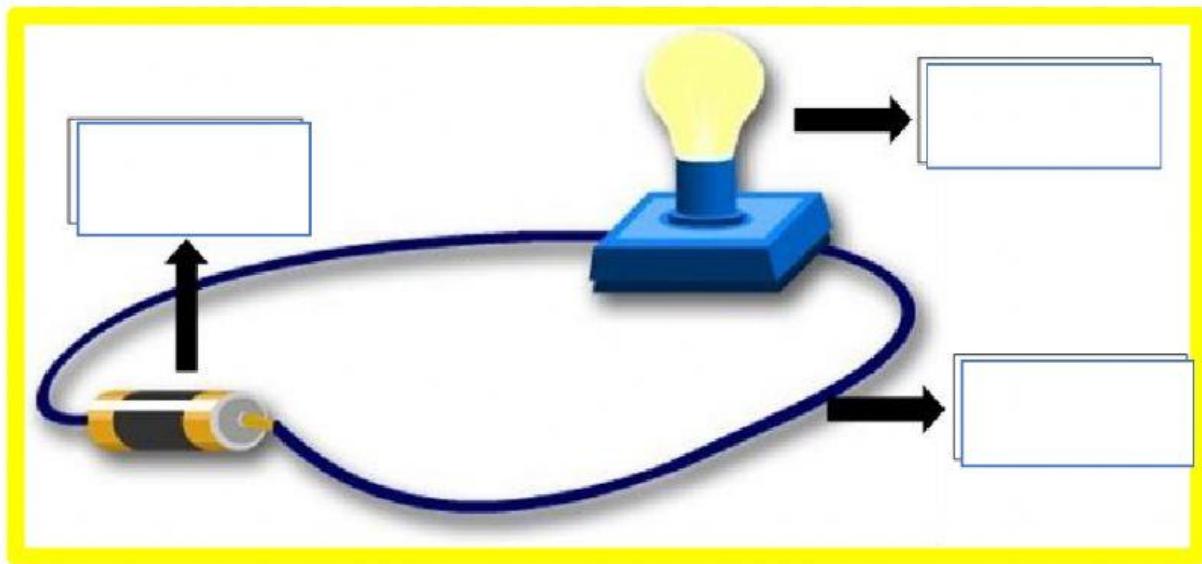
..... It uses or consumes the power or energy. Bulb is the example of this component.

3. Label the components of a simple circuit.

1. Battery

2. Wire

3. Bulb

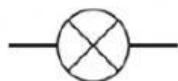


4. Which object is the best conductor of electricity?

- A.** Plastic
- B.** Glass
- C.** Copper

5. Complete the table below to show the symbols and the names for the components.

Symbols you can use



1) Wire

2) Battery

3) Bulb

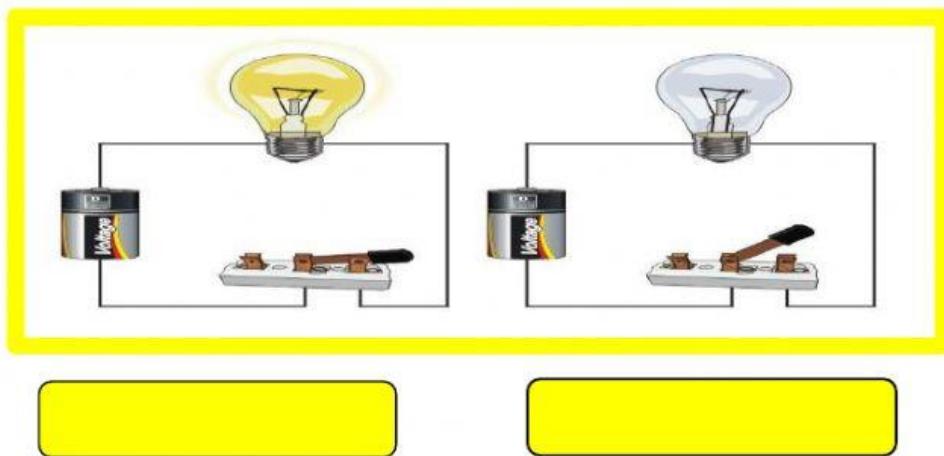
4) Switch

Component	Name	Symbol

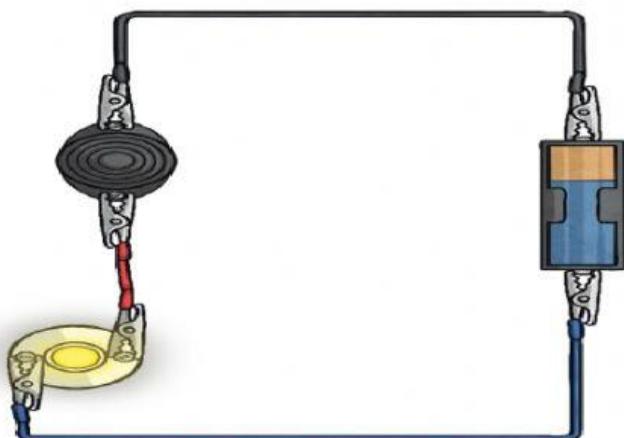
6. Write on the line if it is open or closed circuit.

Open

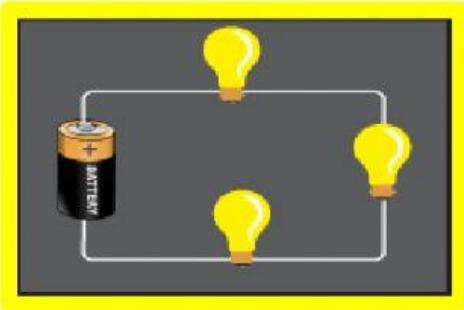
Closed



7. Is this a complete circuit? Explain your answer



8. If a fourth bulb is added to this circuit, what happens to the other bulbs?



- A.** The bulbs remain the same
- B.** The bulbs become dimmer
- C.** The bulbs become brighter

9. Which element of a circuit is responsible for turning it on and off?

- A.** Bulb
- B.** Battery
- C.** Switch
- D.** Wire

10. Which of the following statements is correct?

- A.** Electricity is a form of energy
- B.** Electric current can flow through the brick walls of a house
- C.** The metal electric wires can be replaced with plastic ones to allow the flow of the current

11. What is a current?

12. Give one example of an insulator and a conductor

.....
.....

13. How does the electricity flow from a battery?

- A.** Right to left
- B.** Negative to positive
- C.** Positive to negative

14. Tick two activities that are dangerous

- A.** Plucking many wires into main electrical socket
- B.** Holding a battery
- C.** Using electricity near water

Complete the missing words using the words from the table below.

Insulators	Materials	Metals	Cell / Source
Components	Conductors	Good	Insulator
Circuit	Negative/ positive	Electricity	Shock

A circuit always needs an electrical **s**_____ such as a battery, with wires connected to both the **p**_____ (+) and **n**_____ (-) ends. A battery is also known as a **c**_____.

A circuit must also contain one or more electrical **c**_____ such as bulbs, buzzers or motors, which allow electricity to pass through.

Electricity will only travel around a **c**_____ that is complete. That means it has no gaps.

Some materials let electricity pass through them easily. These materials are known as electrical **c**_____.

Many **m**_____ such as copper, iron and steel, are **g**_____ electrical conductors. That is why the parts of electrical objects that need to let electricity pass through are always made of metal.

Some **m**_____ do **not** allow electricity to pass through them. These materials are known as electrical **i**_____.

Plastic, wood, glass and rubber are good electrical insulators. That is why they are used to cover materials that carry **e**_____. The plastic covering that surrounds wires is an electrical **i**_____. It stops you from getting an electrical **s**_____.