Worksheet 1. **Electricity and Circuits.** **Date:**

A. Fill in the Blanks:

1. A device that is used to break an electric circuit is called …… .
2. An electric cell has …….. terminals.
3. …….. is a source of electricity..
4. An electric bulb has a …… that is connected to its terminals.
5. …… is the combination of two or more cells.

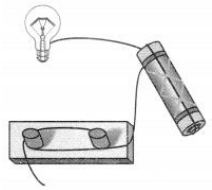
B. State True or False:

1. Electric current can flow through metals. ……..
2. Instead of metal wires, a jute string can be used to make a circuit. ……
3. Electric current can pass through a sheet of thermocol. ……
4. In an electric circuit source of electricity is bulb. ……..
5. Paper is a good conductor of electricity. ……..

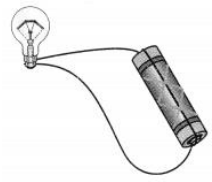
C. Answer the following questions in short:

1. Explain why the bulb would not glow in the arrangement shown in Fig.

2. Complete the drawing shown below to indicate where the free ends of the two wires should be joined to make the bulb glow.

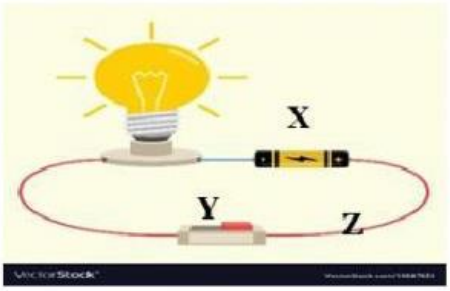


3. Would the bulb glow in the circuit shown?



Worksheet 2. **Electricity and Circuits** **Date:**

The diagram shows a simple circuit.



1. Name the parts of the circuit labelled X, Y and Z.
   X _____
   Y _____
   Z _____

2. Write the letter of the path that best matches each statement.
   i. Provides the power source _____
   ii. Path for electrons to flow _____
   iii. Opens or closes the circuit _____

3. Explain what happens to the light bulb when the switch is closed. (1)
   _____

4. What is the name given to an object that does not allow electrons to flow through it easily?
   _____

5. Which object is the best conductor of electricity?
   a. Plastic
   b. Glass
   c. Cooper

6. Mr. Smith works at an electrical plant. He wears rubber gloves to work every day. Explain why Mr. Smith uses these gloves daily. (1)

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