

# Chapter: Electric Current and Its Effects

## Subtopic: Electric Circuits and Electric Fuses

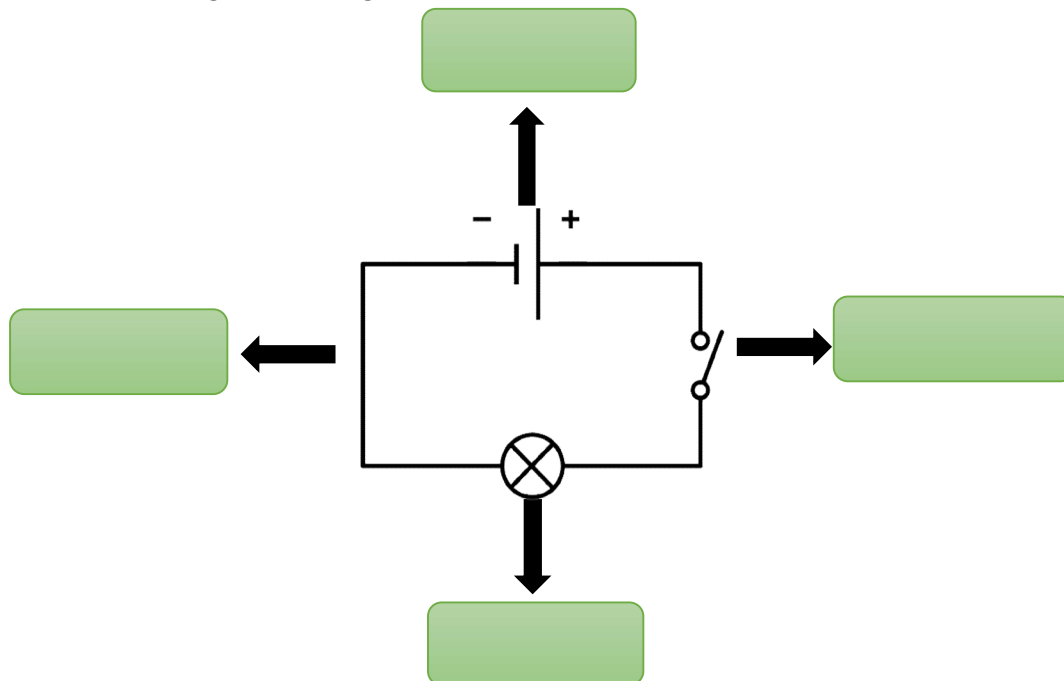
**Section 1: Mark 'T' if the statement is true and 'F' if it is false:**

1a. It is much easier to draw a circuit diagram using symbols.

1b. Bulb glows only when the switch is in the 'ON' position and the electric circuit is closed.

1c. A fuse is a safety device which prevents any damage to the electrical circuits and any possible fires.

**2. Label the following circuit diagram.**



**Section 3 : Fill in the blank with the suitable option.**

3 It is necessary that the positive terminal of one cell is connected to the \_\_\_\_\_ terminal of next cell. (negative/ right terminal)

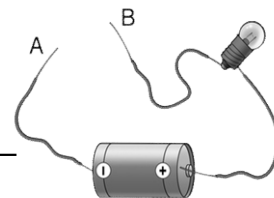
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4. A thin wire in the bulb is called the \_\_\_\_\_. (wire/ filament)
5. The various components in a circuit are connected by \_\_\_\_\_. (wire/ thread)

### Section 3 : Answer the following questions briefly :

6. Why do we call this electrical circuit incomplete?



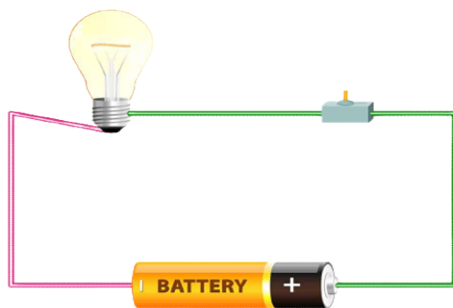
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7. Draw the circuit to represent the diagram shown in the figure.

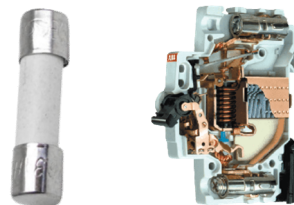


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### Section 4: Think and answer the following questions

8. Riya wants to use Miniature Circuit Breakers (MCBs) in place of a simple fuse in her building. What advice would you give her in this regard?



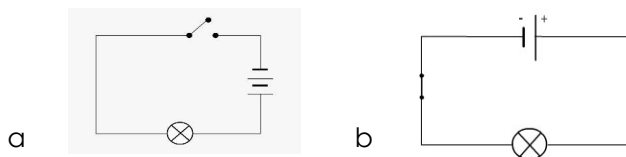
a. Simple Fuse    b. MCB

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9. Compare the following pictures and answer the questions:



- a. Which is an open circuit diagram out of the two figures - a. or b.?

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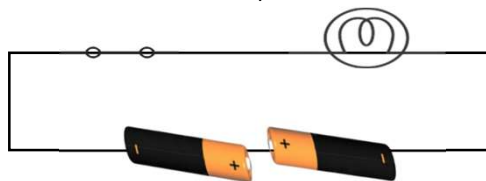
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- b. In which circuit will the bulb glow?

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10. Do you think that the bulb in the circuit glows? Give the reason why.



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