

Science Worksheet Class VII
Electric Current and its Effects

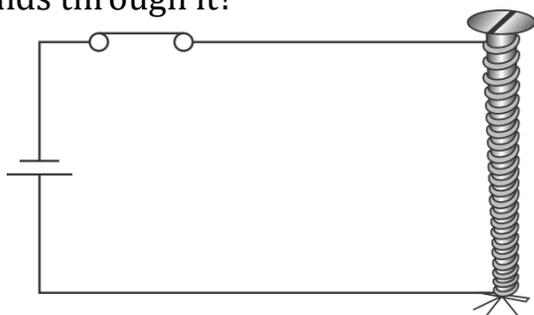
1. Fill in the blanks:
 - a. The use of a fuse is based on the _____ effect of current.
 - b. Nichrome is used for making _____.
 - c. The device used to prevent the flow of excess current is _____.
 - d. Two or more cells joined together form a _____.
2. What happens when the bulb gets fused?
3. Draw the symbols for the following:
 - a. Switch in the off position
 - b. Connecting Wires
4. Write one word for each:
 - a. An unbroken path through which electric current can flow
 - b. A device used to open or close an electric current
5. Identify the given figure. Why we should not switch on the current for more than few seconds through it?
6. What do you observe if the electric bulb remains switch 'ON' for a long period?
7. How a fuse wire prevents damages to electrical circuits and possible fires?
8. Give one example for each:
 - a. A material used to make the filament of an electric bulb
 - b. An appliance that is based on the heating effect of electric current
9. What is the characteristic of fuse wire?
10. What is an electromagnet?
11. What is meant by resistance of a wire?
12. Why is it that same current flowing through the tungsten filament of an electric bulb produces enormous heat but almost negligible heat is produced in the connecting wires of the bulb?
13. Give two advantages of electromagnets over permanent magnets.
14. How can we say that the electric circuit is complete? What happens when the circuit is complete? .
15. (a) Identify the given symbols.





(b) How a fuse wire prevents damages to electrical circuits and possible fires?

16. Some electrical appliances have elements in them. How do you notice that they have become hot?
17. Where can we place a key or a switch in an electric circuit?
18. Draw a diagram to show the circuit of an electrical bell.
19. What is a circuit diagram? What is its use?
20. What are the causes of short circuiting and overloading?
21. Identify the given figure. Why we should not switch on the current for more than few seconds through it?



22. What is the function of needle in a magnetic compass?
23. What is the magnetic effect of electric current?
24. What will happen when a large amount of current passes through a wire?