

Science Worksheet

Electric current and its Effects

1. Fill in the blanks:

- a. No appliances work when the circuit is_____.
- b. Flow of large current due to direct contact of a live and a neutral wire is called _____
- c. Electric bulb works on _____
- d. The wire of an electric fuse is an alloy of copper and _____

2. Answer the following questions-

- a. Differentiate between electric current and electric circuit.
 - b. Explain the function of cell in a circuit.
 - c. Name 2 devices based on the use of electromagnet.
 - d. Why does electric current show heating effect?
 - e. What is short-circuiting? How it occurs?
3. Can we use an electromagnet separating plastic bags from a garbage heap? Explain.
4. What is a solenoid?
5. What is meant by an electromagnet?
6. Explain heating effect of electric current.
7. What is magnetic effect of electric current?
8. Look at the figure given below and answer whether the compass needle will show deflection or not when the switch in the circuit shown is closed? Why?

