

Science Worksheet 9

Grade VII

Electric current and its effects

Q1. Fill in the blanks:

- When two or more cells are used to draw an electric current, the combination of cells is called _____
- Ordinary cell used in torches are _____
- The element of an electric iron is made of _____
- Electric bulb works on _____ effect of electric current.
- The use of fuse is based on the _____ effect of the current.
- Flow of large current due to direct contact of a live and a neutral wire is called _____.

Q2. State true or false and rewrite the incorrect statement:

- A thick small line in the symbol of a cell represents positive terminal.
- Metals generally have high resistance which make them good conductors of electricity.
- An electric fuse consists of a thick wire made of a material that melts does not easily when heated.
- A wire carrying current can behave like a magnet and deflects the needle of the compass.

Q3. Write one word for the following:

- A device used to open or close an electric current
- An unbroken path through which electric current can flow
- Tightly wound coils found in appliances which heat up

Q4. There was an electric fire due to extremely large amount of current flowing through the wires in a residential complex. Identify and explain any possible reasons for it.

Q5. What is the solenoid? Draw a diagram with a solenoid connected in a circuit. How can you increase the strength of a solenoid?

Q6. What is an electromagnet? Give two uses of electromagnets. Name two factors on which the electromagnet depends.

Q7. Identify the type of connection and give 2 points of difference-

