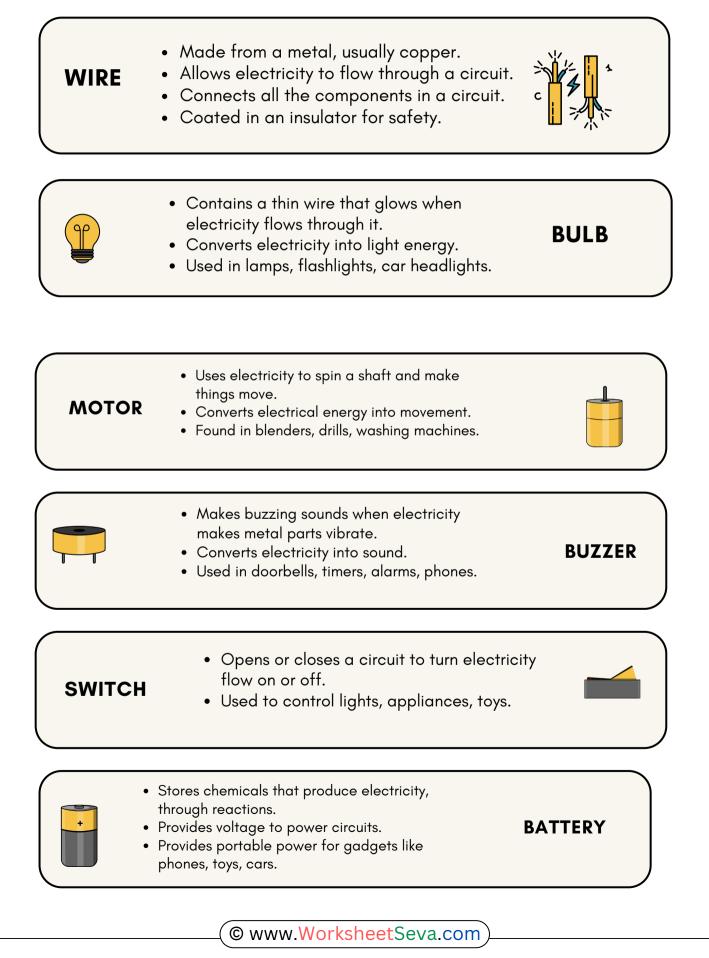


Electrical components are the basic building blocks of electronic devices. When electrical components are connected together, they form a circuit. Circuits allow electricity to flow, which powers electronic devices.





Name:....

Multiple Choice Questions

1. The coil of wire in an electric heater is called:

(a) Component (b) Element (c) Circuit (d) Spring

2. The amount of heat produced in a wire depends on:

(a) Material (b) Length (c) Thickness (d) All of these

3. The thin wire in a bulb is called:

(a) Filament (b) Coil (c) Element (d) Fuse wire

4. When electric current passes through a wire, it behaves like a:

(a) Battery (b) Temporary magnet (c) Fuse (d) Compass needle

5. Who discovered the magnetic effect of current?

(a) H.C. Oersted (b) Michael Faraday (c) Ohm (d) Fleming

6. The most suitable material for making the core of an

electromagnet is:

(a) Iron (b) Brass (c) Aluminium (d) Steel

7. The compact fluorescent electric lamp (CFL) has:

(a) Nichrome filament (b) Chromium filament

(c) Tungsten filament (d) No filament

8. Electromagnet loses its magnetic property when:

(a) Current is very high (b) Current is switched off

(c) Heat is increased (d) Current is switched on

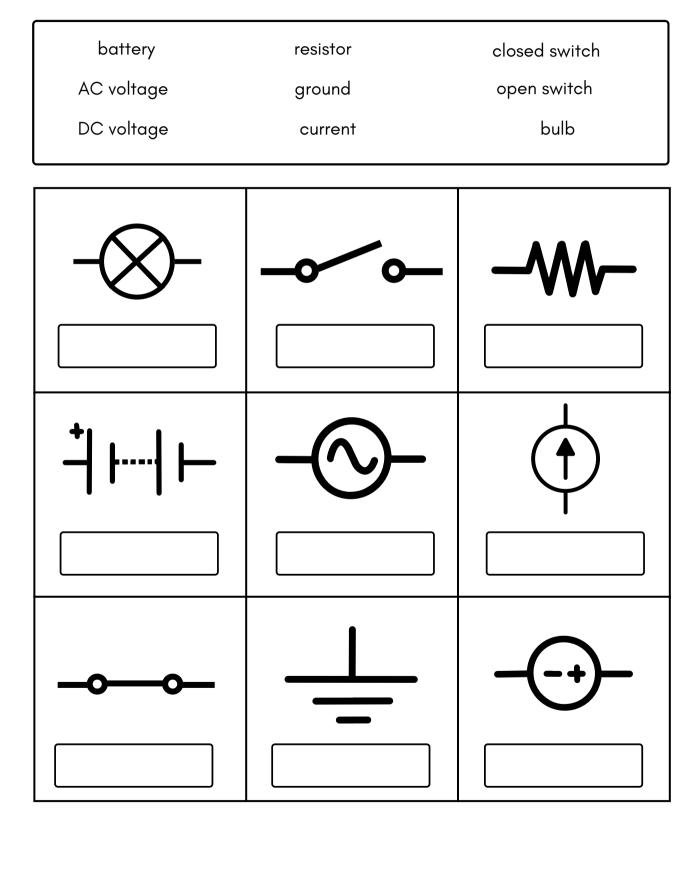
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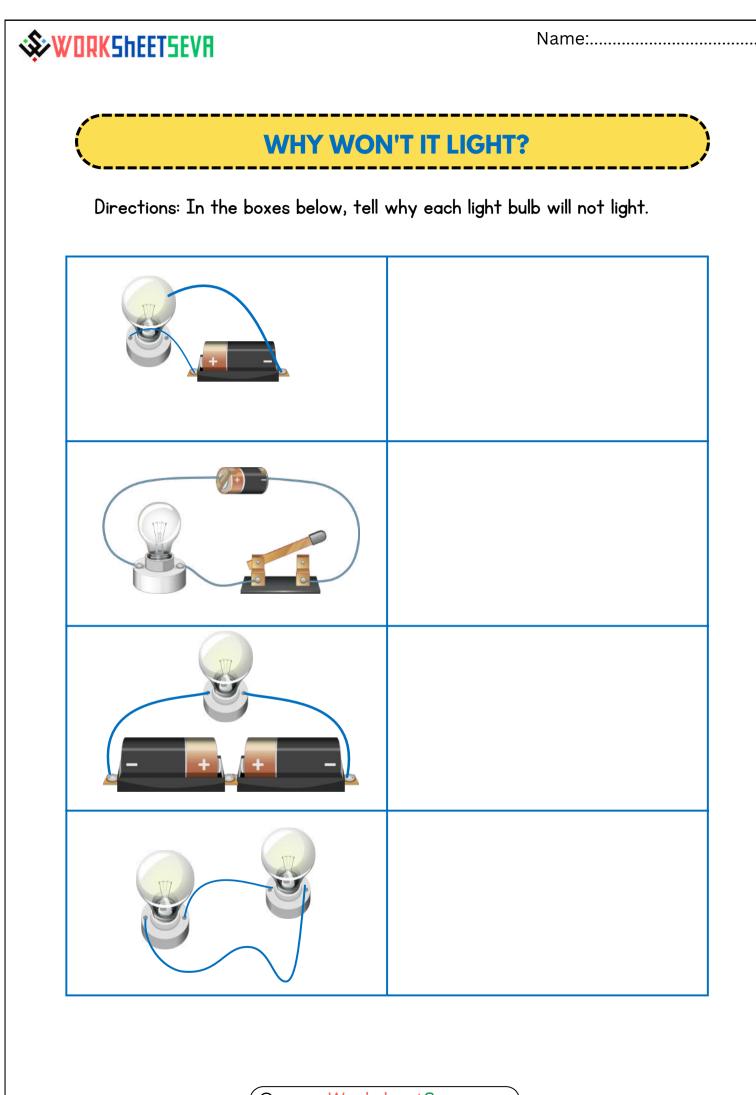
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Circuit Diagram Symbols Worksheet

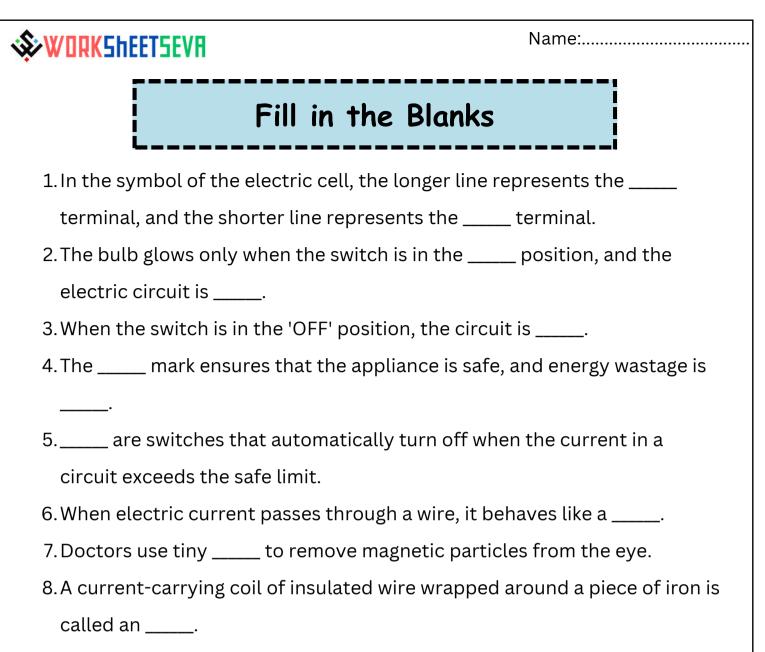
Look at the pictures and write the name of each piece of equipment.



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- 9. A combination of two or more cells is called a _____.
- 10. The electromagnet weakens the cell quickly if left _____.

Answer the Following Questions

- 1. What are the causes of excessive current flow in a circuit?
- 2. List the advantages of CFL over a traditional bulb.
- 3. How is the heat produced by electric current related to resistance, the magnitude of current, and time?
- 4. Why is an MCB preferred over a fuse?