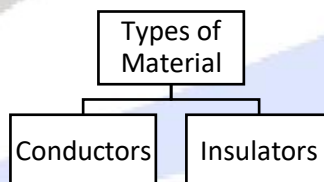


### Power House

- main source of electricity
- runs heavy appliances
- gives huge amount of electrical energy
- can be dangerous if not handled carefully.

### Electric cell

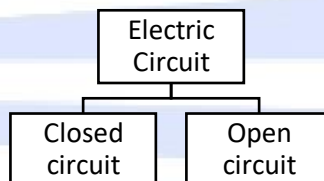
- a device which produces electricity capable to run appliances like torch, dock, camera, etc.
- it converts chemical energy into electrical energy.



**Conductors:** materials that allow an electric current to flow through them. e.g., gold, copper, etc.

**Insulators:** materials which do not conduct electricity. e.g., plastic, rubber, etc.

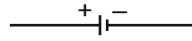

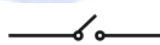
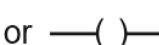
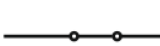
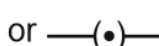


**Electric circuits:** The closed path in which an electric current can flow.



**Closed circuit:** When current is flowing through electric circuit

**Open circuit:** when current is not flowing through electric circuit.

### Circuit components

- |                    |  |  |
|--------------------|--|--|
| • Cell             | Source of current in electric current. |   |
| • Battery          | Combination of cell                    |   |
| • Open switch      | used to open electric circuit          |  or  |
| • Closed switch    | used to close electric circuit         |  or  |
| • Connecting wires | connecting all components of circuits. |   |
| • Electric bulb    | bulb glows and gives light             |   |

### Safety Measures.

- Fuse
- Earthing
- Plastic covering or insulation
- Caution sign.