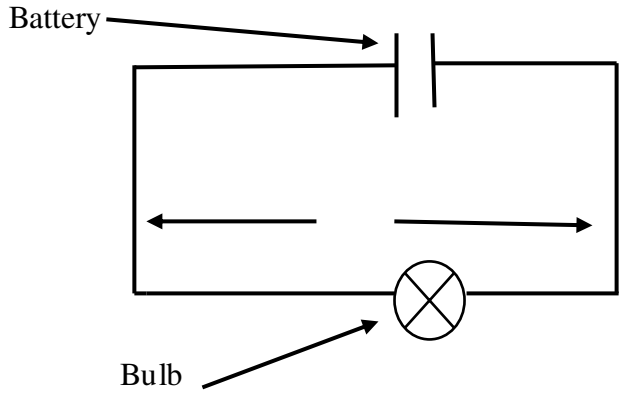
1752 Nadroga Sangam School

Elementary Science Lesson Notes – week 1
Year 6 – Term 2, 2021

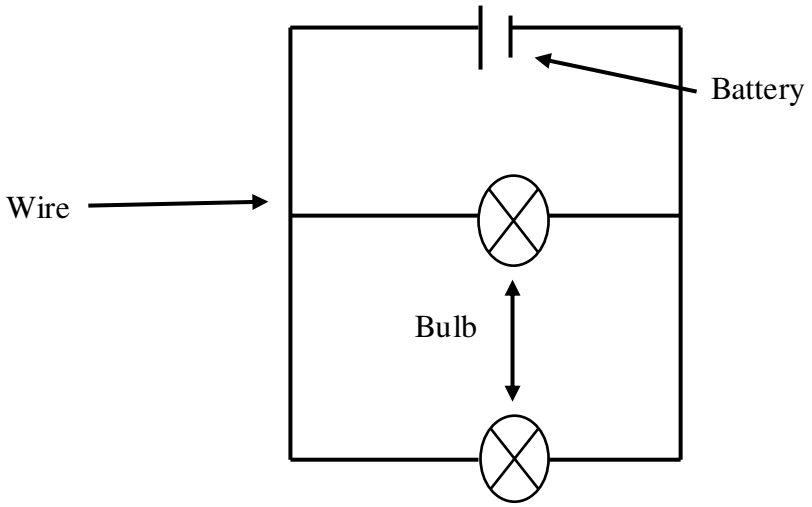
Topic – Electric Circuits

- Path for transmitting electric current.
- Electric circuit includes a battery, wire, and bulb.
- The three basic types of electrical circuits are :

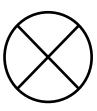
1. ***Simple Circuit -***
   - Contains a power source (battery) , wires and a resistor (light bulb)
   - They are useful and quite common.
   -They exist as torches, doorbells and in many kitchen appliances.



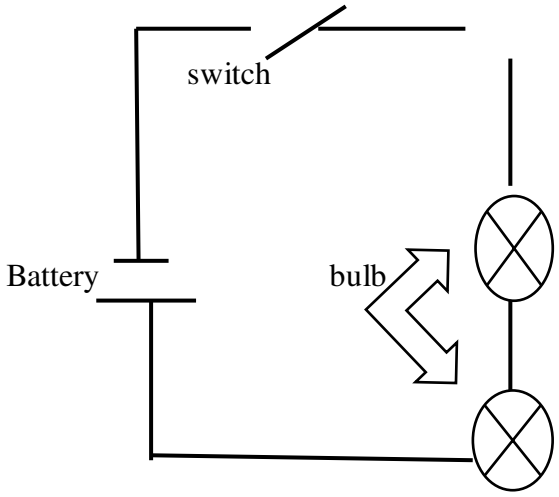
2. ***Parallel Circuit -***
   - A parallel circuit is a closed circuit in which the current divided into two or more paths before recombining to complete the circuit.



3. ***Series Circuit -***
   - In a series connection, components are connected end to end, so that current flows first through one, then through the other.

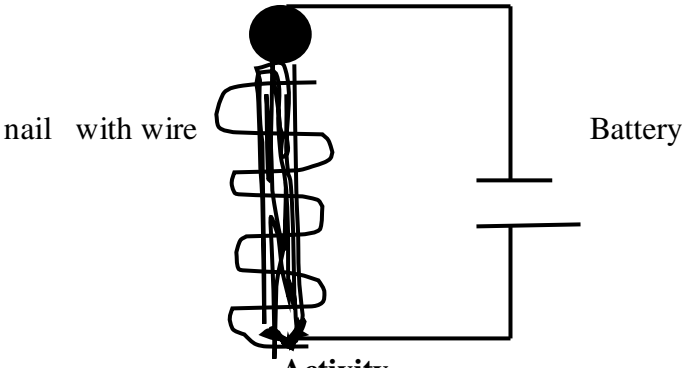


- In the series connection, the current goes through one lamp and then the other. The lamps are strapped together end to end



Important Note

- Electricity will only pass through the circuits if the circuits is **closed.**
- Electricity **will not** flow if the circuit is **open.**
- **Electromagnetism** is defined as an attraction between particles which is defined as created by electricity. Used in electric motors such as washing machines, fridges, brush cutters, magnets and etc.



Activity

1. Construct a simple circuit at home. Materials you need to look for:
   * battery, insulation wire, bulb, sellotape
   Connect batteries with wire and bulb using a sellotape.

2. Construct an electromagnetism. Materials you need to look for:
   * battery, wires, nails
   Coil the nails using wire and connect it to the battery