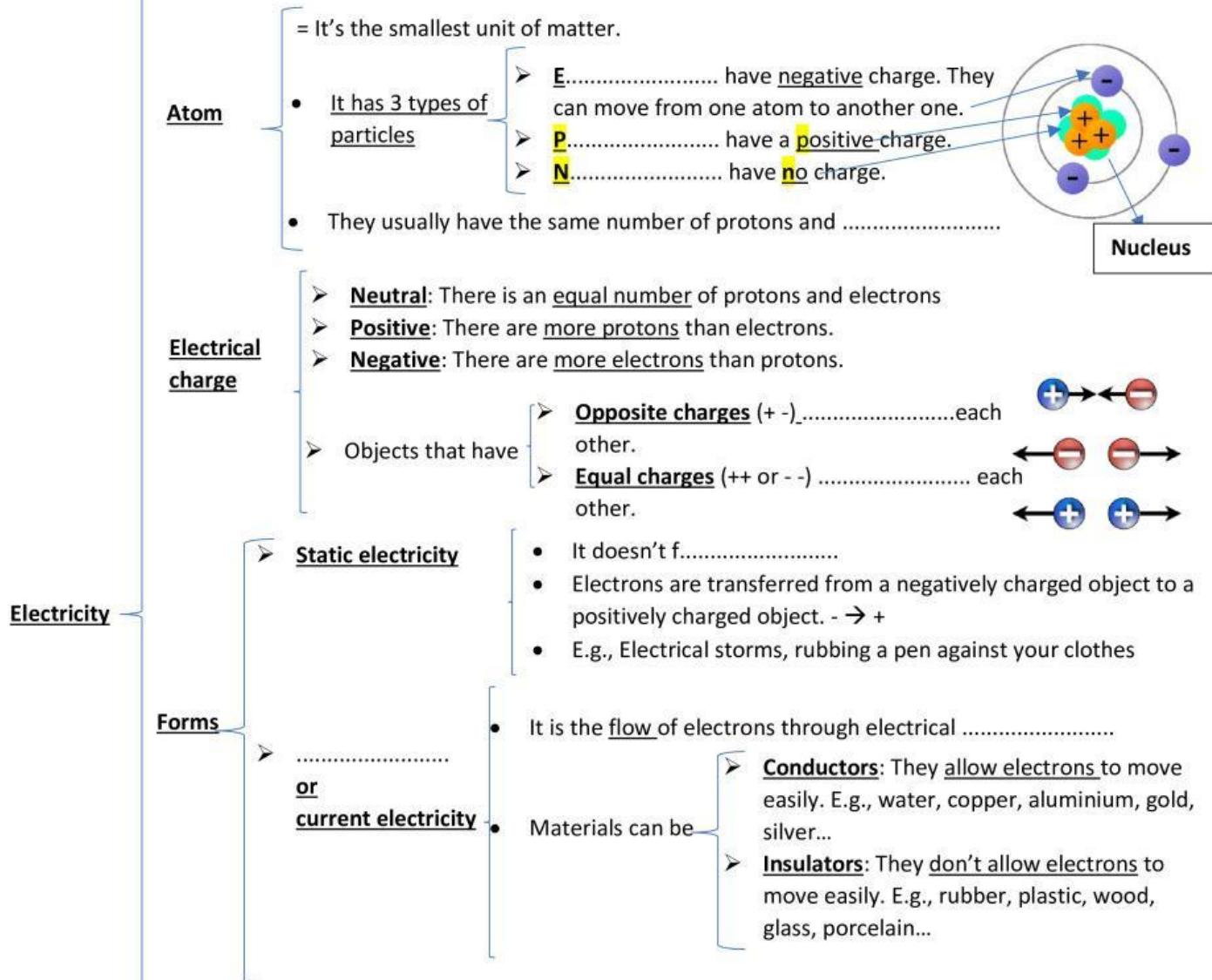
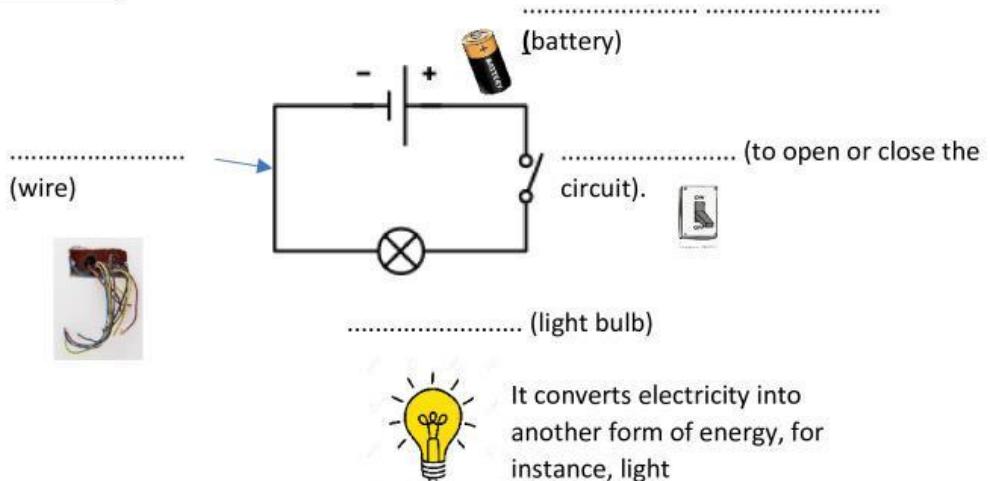


= It's a type of ..... we use to power electrical devices and machines. It's the flow of electrons and protons.



### Electrical circuit



- It can be generated from
  - Non-renewable energy sources**
    - Burning ..... fuels in thermal plants generates ..... to move turbines. A turbine is connected to a ..... which converts ..... energy into electricity.
    - Steam is also used to generate electricity from the energy produced from uranium in ..... power plants.
  - Renewable energy sources**
    - Energy is collected by ..... panels, wind turbines and hydroelectric plants.
    - The energy is passed to a ..... which spins a generator to make electricity.
- ..... = magnetism created when electricity flows through magnetic metals (only while the electrical current is switched on)
- Other
  - Rubbing two objects against each other → ..... electricity
  - A ..... reaction in a battery → electricity
- How does electricity reach our homes?
  - Electricity is generated in p..... p.....
  - Generated electricity goes to a s..... where a t..... increases its voltage.
  - Electricity is carried over long distances by high-voltage p..... l.....
  - When electricity arrives at a substation the voltage is reduced to a s..... l.....
  - Electricity is then passed on to e..... p..... who supply homes with power.
- Robots**
  - = machines that can be programmed to do some tasks
  - Advantages
    - They s ..... time.
    - They can do repetitive tasks q.....
    - They can be used in s .....
    - They can do dangerous j .....
    - They do not need b.....
  - .....
    - They can be e.....
    - They need p.....
    - They can cause people to l..... their jobs.
    - They can b..... down or malfunction.