

Electricity and Magnetism

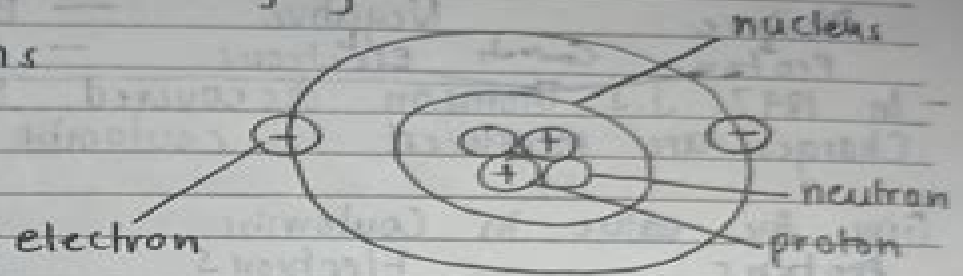
Unit 1: Electric Charge and Coulomb's Law

Lesson 1.1 Methods of Electrostatic Charging

- Algebra
- Trigonometry
- Geometry

Elements are made up of atoms

- protons
- neutrons
- electrons



Electrostatics

The interaction of charges when they are stationary is crucial to understand electricity and magnetism. The study of stationary charges are called electrostatics.

Electric Charges

Electric charge is the fundamental property of matter that is carried by elementary particles.

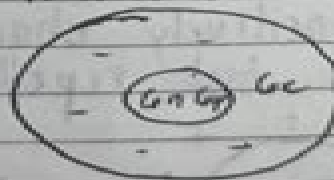
Atomic number - refers to the number of protons

Mass number - total number of neutrons and electrons

$$6 + = 6$$

$$12 - = 6$$

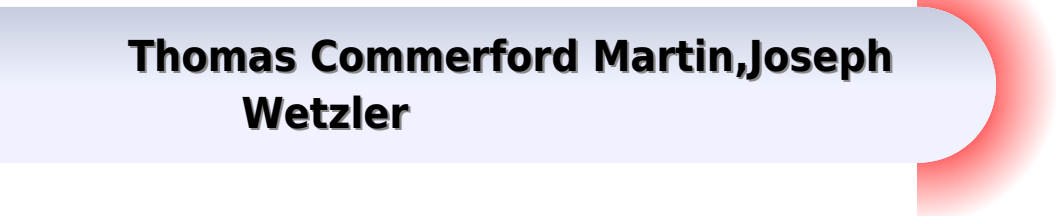
$$n = 6$$



Benjamin Franklin, an American physicist, carried out a series of experiments involving flying kites during thunderstorms which led to the discovery of electric charge.

Notes On Electricity Magnetism

**Thomas Commerford Martin, Joseph
Wetzler**



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