

SUBJECT: Electric Field-Physics-A2- Level

CONTENT: Electric Field; Coulomb's Law; Electric Field Strength;
Electric Potential Energy; Electric Potential; 1.5 Work
Done in Moving a Charge between two Points in an
Electric Field; Uniform Electric Field

DOCUMENT TYPE: Study Guide

SCHOOL: ESDC Tuition Centre

1 Electric Field

- i. **Electric Field** is a region where a **Charged Particle** will experience a force.
- ii. An **Electric Charge** is measured in **Coulombs (C)** and may be either a **Positive** or a **Negative Charge**.
- iii. **Oppositely** charged-particles **attract** each other, whereas **like** charges **repel** each other.

1.1 Coulomb's Law

- i. According to Coulomb's Law, the **Force F** of **Attraction or Repulsion** of two point-charges Q_1 and Q_2 separated by a distance r is given by:

$$F = \frac{Q_1 Q_2}{4 \pi \epsilon r^2} \dots\dots\dots (1)$$

Where:

ϵ = Permittivity of the material between the charges

$$\epsilon = \epsilon_r \epsilon_0$$

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