

# AP Physics C: Electricity & Magnetism Study Guide

## Chapter 1: Electric Potential (Electric Potential and Capacitors)

### Charges & Coulomb's Law:

#### Important Concepts:

- Charges are **conserved** (no creation or destruction).
- Charges are **attracted** to the **opposite** electric charges.
- A ground can act as a **reference** point of  $V = 0$  in voltage calculations for  $V = \frac{q}{4\pi\epsilon_0 r}$ .
- Clouds are **positively charged** because it **attracts** negatively charged.

### Formulas:

1.  $V = \frac{q}{4\pi\epsilon_0 r}$  (electric force)

2.  $E = \frac{F}{q}$

### Examples:

1. **Electric Force** (See the **Electric Charge**)



2. **Electric Potential** (Electric Potential Energy)



### Electric Field:

#### Important Concepts:

- E**-Field lines always point in the direction of decreasing electric potential.
- E**-Fields start at **positive charges** and end at **negative charges**.

### Formulas:

1.  $E = \frac{F}{q}$  (E-Field in terms of potential)

2.  $E = \frac{kq}{r^2}$  (General Form)

3.  $E = \nabla V$  (E-Field in terms of electric potential difference)

### Examples:

1. **Uniformly Charged Sphere**

$$E = \frac{kq}{r^2}$$

Since  $q = \rho V$ ,  $q = \rho \frac{4}{3}\pi r^3 \rightarrow q = \rho \frac{4}{3}\pi r^3$

$$E = \frac{kq}{r^2} = \frac{k \rho \frac{4}{3}\pi r^3}{r^2} = \frac{4}{3}\pi k \rho r^2$$

2. **Uniformly Charged Ring**



$$E = \frac{kq}{r^2}$$

$$E = \frac{kq}{r^2} (\text{ring}) = \frac{kq}{r^2} \cdot \frac{2\pi r \rho}{2\pi r} = \frac{kq \rho}{r}$$

$$E = \frac{kq \rho}{r}$$

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**Marybeth Kravets,Imy F. Wax**

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