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# Class 12 Physics

Complete Formula Sheet

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## Electrostatics & Current

- Coulomb's law:  $F = k \frac{q_1 q_2}{r^2}$ .
- Electric field, potential and capacitance ( $Q = CV$ ).
- Ohm's law:  $V = IR$  ; power  $P = VI$ .
- Kirchhoff's laws and Wheatstone bridge.

## Magnetism & EMI

- Magnetic force:  $F = qvB \sin(\theta)$ .
- Biot-Savart law and Ampere's law.
- Faraday's law of induction; Lenz's law.
- AC circuits, impedance and resonance.

## Optics & Modern Physics

- Mirror and lens formula; power of a lens.
- Interference, diffraction and polarisation.
- Photoelectric effect:  $K_{\text{Emax}} = h\nu - \text{work function}$ .
- Atoms, nuclei and semiconductor devices.

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