Target Grade

A-LEVEL PHYSICS LEARNING JOURNEY

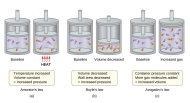
EXAMS

TURNING POINTS

- Einstein's theory of special relativity
- Wave particle duality
- Discovery of electromagnetic waves
- Photon theory of light
- Early theories of light
- Discovery of the electron
- Determining the charge of the electron

NUCLEAR PHYSICS

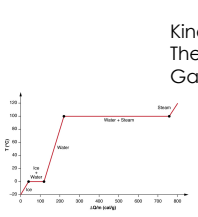
- Carbon Dating
- Half-life
- Exponential Decay
- Nuclear fusion
- Nuclear fission
- Binding Energy
- Einstein's mass-energy equation
- Nuclear decay
- Radio- activity
- Nuclear Physics

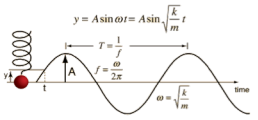


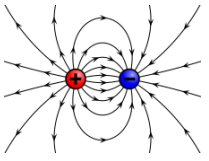


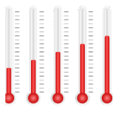
THERMAL PHYSICS

- Kinetic Theory of Gases
- Specific Latent Heat
- Specific Heat Capacity
- Thermal Physics
- Damping
- Resonance
- Circular and SHM





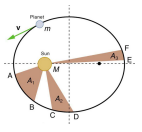




FIELDS

- Gravitational Fields
- Electric Fields
- Kepler's Laws
- Gravitational Potential
- Coulomb's Law
- Newton's Law of Gravitation
- Electric Potential
- Charged Particles in an E-Field
- Charged Particles in a Magnetic Field
- Magnetic Fields
- Transformers
- EM Induction

$$F = G\frac{M_1 M_2}{r^2}$$



Year 13