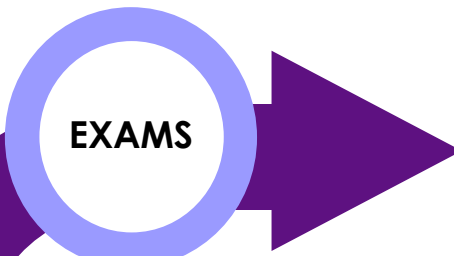


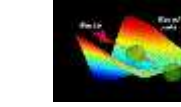
A-LEVEL PHYSICS LEARNING JOURNEY



Special relativity

Michelson-Morley experiment

Wave-particle duality

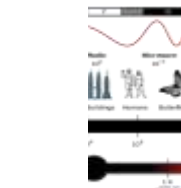
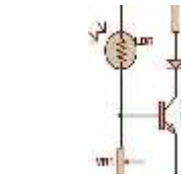
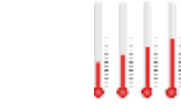


Kinetic Theory of Gases



Specific Latent Heat

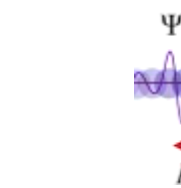
Specific Heat Capacity



Diffraction and polarisation

Reflection and refraction

Wave-Particle Duality



Electron microscopes



EM waves

Milikan's oil drop experiment

Carbon Dating

Exponential Decay

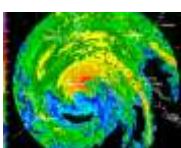
Nuclear fusion

Einstein's mass-energy equation



Nuclear decay

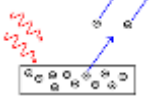
Nuclear Physics



Turning points

NUCLEAR PHYSICS

Photoelectric effect



Newton & Huygen

Discovery of electrons

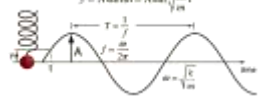
Half-life

Nuclear fission

Binding Energy

Damping

Resonance



Gravitational Fields

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



Kepler's Laws

Coulomb's Law

Electric Potential

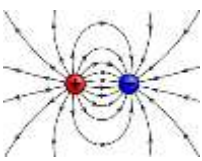
Charged Particles in a Magnetic Field

Transformers

THERMAL PHYSICS

FIELDS

Circular and SHM



Electric Fields

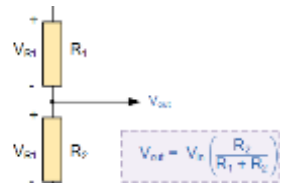
Gravitational Potential

Newton's Law of Gravitation

Charged Particles in an E-Field

Magnetic Fields

EM Induction



Thermal Physics

Resistivity

Analysing Circuits

Kirchhoff's First Law

Combining Resistors

Resistance

Year 13

ELECTRICITY

Momentum



Using excel and spreadsheets to analyse data

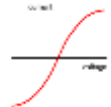
Hooke's Law and Young's Modulus

Density and Pressure

Electrical Energy

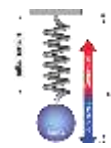
Potential Divider

IV Characteristics

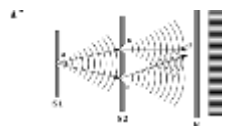


Pd and EMF

Electrical Current



Superposition of waves



Stationary waves

Conservation of Energy



Power

WAVES

FORCES & MATERIALS

Total Internal Reflection

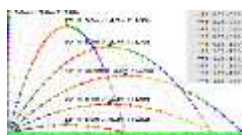
Young's Double Slit Experiment

Kinematics and the motion of bodies

Newton's Laws of Motion

Archimedes' Principle

Deforming Materials



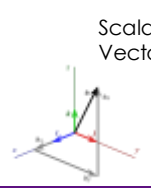
Waves

Quantum Physics



Quarks

The nucleus



Scalars & Vectors

Induction tasks

PARTICLES & RADIATION

Year 12

The Photon Model

The Photoelectric Effect

Anti-particles, hadrons and leptons

Alpha Particle Scattering



Particle Physics

Foundations of Physics

