



A-LEVEL PHYSICS LEARNING JOURNEY



Exam

ELECTRICITY

Resistivity

Analysing
Circuits

Kirchhoff's
First Law

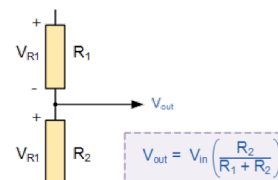
Combining
Resistors

Magnetic
Fields

EM Induction

$$R_{TOTAL} = R_1 + R_2 \dots R_n$$

$$\frac{1}{R_{TOTAL}} = \frac{1}{R_1} + \frac{1}{R_2} \dots \frac{1}{R_n}$$



Resistance

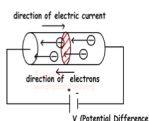
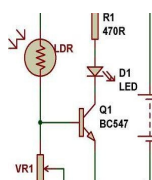
Momentum

Can you find the value of n-m-m-n ?			
+	+	=	2
+	+	=	4
+	+	=	7
+	+	=	1

Using excel
and
spreadsheets to
analyse data

Hooke's
Law and
Young's
Modulus

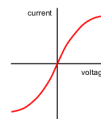
Density
and
Pressure



Electrical
Energy

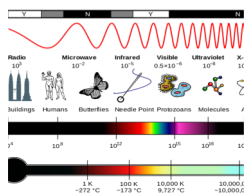
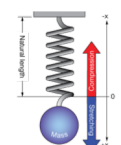
Potential
Divider

IV
Characteristics

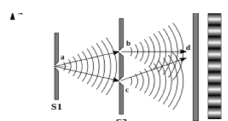


Pd and
EMF

Electrical
Current



Superposition of waves



Stationary
waves

Conservation of
Energy



Power

WAVES

FORCES & MATERIALS

Diffraction
and
polarisation

Total Internal
Reflection

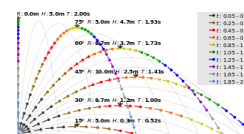
Young's Double Slit
Experimentt experiment

Kinematics and
the motion of
bodies

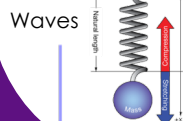
Newton's
Laws of
Motion

Archimedes'
Principle

Deforming
Materials



Reflection
and
refraction



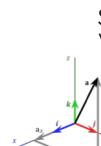
Waves

Quantum
Physics



Quarks

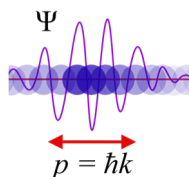
The nucleus



Scalars &
Vectors

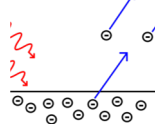
Induction
tasks

Wave-Particle
Duality



The Photon
Model

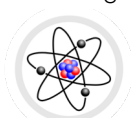
The Photoelectric
Effect



PARTICLES & RADIATION

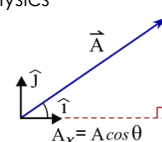
Anti-particles,
hadrons and
leptons

Alpha Particle
Scattering



Particle
Physics

Measurements
& their Errors



Year
12

