



Exam

ELECTRICITY

Resistivity

Analysing Circuits

Kirchhoff's First Law

Combining Resistors

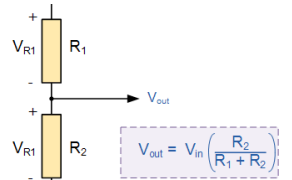
Resistance

Momentum

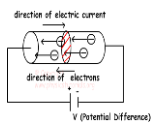
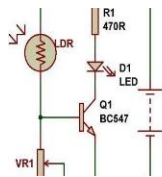
Magnetic Fields EM Induction

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

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



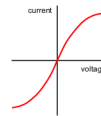
Can you find the value of x, y, z?			
+	+	=	2
+	+	=	4
-	+	=	7
-	-	=	1



Electrical Energy

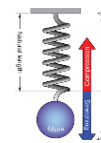
Potential Divider

IV Characteristics



Pd and EMF

Electrical Current

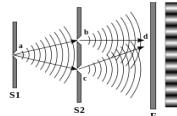


Using excel and spreadsheets to analyse data

Hooke's Law and Young's Modulus

Density and Pressure

Superposition of waves



Stationary waves

Conservation of Energy



Power

WAVES

FORCES & MATERIALS

Diffraction and polarisation

Total Internal Reflection

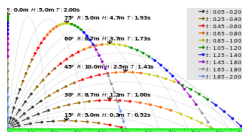
Young's Double Slit Experiment

Kinematics and the motion of bodies

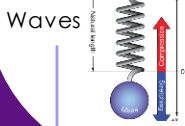
Newton's Laws of Motion

Archimedes' Principle

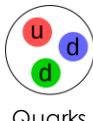
Deforming Materials



Reflection and refraction



Quantum Physics



Quarks

The nucleus



Scalars & Vectors

Induction tasks

Wave-Particle Duality

PARTICLES & RADIATION

The Photon Model

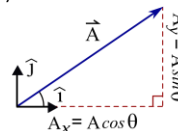
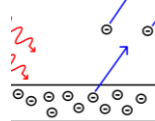
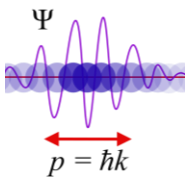
The Photoelectric Effect

Anti-particles, hadrons and leptons

Alpha Particle Scattering

Particle Physics

Measurements & their Errors



Year 12

