

## Annual planner for IGCSE 9 Physics

<u>Month</u>	<u>Topic</u>	<u>concept</u>	<u>learning objective</u>
April	CHAPTER 1- MEASUREMENT	Measurement of length, mass and density using conventional and non conventional methods.	Students will be able to understand the various techniques of measurement and it's application in our daily life.
May	CHAPTER 2- MOTION	Various types of motion and it's graphical representation.	Students will be able to understand the concept and calculation of speed, velocity and acceleration of an object analytically and graphically.
July	CHAPTER- FORCES & MOTION Turning effect of forces	Effects of forces and motion Concept of center of gravity Equilibrium Turning effect Or moment of force	Students will be able to understand the effects of forces on motion and also equilibrium.
August	Forces and matter, Energy transformation & transfer, Energy resource,	Forces and its effect on matter Spring Forms of energy Conservation of energy Energy calculations	Understanding of the concept of energy & its conservation.
September	Kinetic Model of matter, Thermal properties of	states of matter, Kinetic Model, forces and kinetic theory, gases and kinetic theory Concept of temperature,	concept of kinetic theory which explains motion of gaseous molecules.

		thermal expansion, capacity & latent heat	
October	Energy Transfer Sound Light	Conduction, convection, Radiation, Speed of sound its production detection Reflect lights, refraction, total internal reflection, lenses	Students will be able to understand energy transfer and the concept of sound. Also they will understand basic principles of light.
November	Properties of waves, Spectra	Waves concept, Speed, frequency & wavelength, Wave equation	Students will be able to understand types of waves in general life, physical quantities related to waves.
December	Revision chapter 1 to 8 Followed by class test	Previous year questions	Students will be able to assess their understanding for particular topics and their gray areas.
January	Revision chapter 9 to 15 Followed by class test	Previous Year Question	Students will be able to assess their understanding for particular topics and their gray areas.
February	Final Assessment	Full length practice test	Students will be able to assess their understanding for particular topics and their gray areas.