



**KOTHARI INTERNATIONAL**  
**SCHOOL, NOIDA**

**Annual planner for IGCSE 10 Physics**



<b><u>MONTH</u></b>	<b><u>TOPIC</u></b>	<b><u>CONCEPT</u></b>	<b><u>LEARNING OBJECTIVE</u></b>
March	Light: Reflection & Refraction Properties of waves	Phenomena of reflection, refraction & their Laws, Internal reflection, formation of image by a lens and their ray diagram	Understanding of basic nature of light and their phenomena. How these phenomena's are related to practical life or instruments in which we are using them.
April	Electrical Quantities	Electrical Charge, Electric Current, Electromotive Force, Potential Difference Electrical energy and electrical power	Student will be able to understand concept of electrical current and related physical quantities. Also able to gather basic understanding for electrical components.
May	Electrical Circuits & electrical safety	Components of electrical circuits like resistors, Basic series & parallel ckts, other circuits like LDR, Relay, MCB etc, electrical safety components and their working	Understanding of basic working of an electrical circuits required components and also explanation of working of specific electrical ckts.
July	Electromagnetic Effects	Electromagnetic Induction, AC generator, Magnetic Effect of Current, Force on a current carrying conductor, DC motor, Transformer	Knowledge of electromagnetic induction and its practical application in general life.
August	Nuclear model of atom	Structure of an atom, concept of nucleus, electron proton and neutron basic information and their discovery Isotopes	Understanding of structure of an atom
September	Radioactivity	Radioactivity And it's detection,	concept of nuclear radiation and its Detection.

		Nuclear emissions and its types, Radioactive decay Safety and precautions	
October	Earth and solar system, Stars and universe	Information about Solar system, Sun as a star, Dwarf Planet, gravitational field, Information about galaxy, astronomical distances	Enrichment of the candidate about solar system and galaxy. How the gravitational field help to build solar system.
November	Revision chapter 1 to 4 Followed by class test	Length and time, Motion, Mass and weight, Density, Forces and motion, Momentum, Turning effect of forces	Students will be able to assess their understanding for particular topics and their gray areas.
December	Revision chapter 5 to 10 Followed by class test	Forces and matter, Energy transformation & transfer, Energy resource, Work energy and power Kinetic model of matter Thermal properties	Students will be able to assess their understanding for particular topics and their gray areas.
January	Revision chapter 11 to 15 Followed by class test	Thermal energy transfer, Sound, Light, Properties of waves, Spectra	Students will be able to assess their understanding for particular topics and their gray areas.
February	Revision chapter 16 to 20 Followed by class test	Magnetism, Static Electricity, Electrical Quantities, Electric Circuits, Electromagnetic Forces	Students will be able to assess their understanding for particular topics and their gray areas.
march	Revision chapter 21 to 23 Previous year question paper discussion	Nuclear Atom Radioactivity Earth and Solar System Stars and universe	Students will be able to assess their understanding for particular topics and their gray areas.