

NEW ERA SENIOR SECONDARY SCHOOL NIZAMPURA, VADODARA

Yearly Syllabus planning

Class IX Physics

MONTH	NO. OF DAYS	Chapter	Content
April May	20 4	Motion	Describing motion, concept of reference point, uniform and non-uni. Motion. Scalar and vector quantities, distance and displacement, speed and velocity, acceleration, d-t and v-t graphs.
June	16	Motion Force and laws of motion	Derivation of the equations of motion, uniform circular motion. Concept of force, balanced and unbalanced forces,
July	24	Force and laws of motion	Newton's Laws of motion, inertia, and mass, Concept of momentum, Newton's second law of motion and its mathematical formulation. Newton's third law of motion, and its applications.
August	24	Gravitation	Universal law of gravitation and its importance. Free fall, acceleration due to gravity, factors affecting Gravity, equations of motion under free fall, Mass and weight.
Sept.	22	Thrust, pressure and Archimedes' principle. Revision for SA 1	Thrust and pressure concept, Pressure in liquid, principle of floatation, Archimedes' principle. Revision for term-1

MONTH	NO. OF DAYS	Chapter	Content
Oct.	18	Work, Energy and power	Understanding the need of force to work, work done by a constant force and its mathematical expression, Forms of energy, kinetic energy, potential energy, and their expressions,
Nov.	12	Work, Energy and power	Energy transformations, Laws of conservations of energy, Energy conservation in a free falling body, and a pendulum.
Dec.	23	Work, Energy and power Sound	Power, concept and its mathematical eq. its SI unit, relation between SI unit and Commercial unit of energy. Production of sound, differences between oscillation and vibrations, propagation of sound, sound as mechanical longitudinal wave, characteristics of sound waves wave equation.
Jan	23	Sound	Reflection of sound, echo, reverberation, uses of multiple reflection. Limits of Audibility Applications of ultrasound, Structure of human ear.
Feb	21		Revision for term-2