



RUBY PARK PUBLIC SCHOOL

SYLLABUS FOR THE ACADEMIC SESSION 2022-23

Subject - Physics

CLASS - IX

Month	Unit	Topic	Sub Topic	Practical
April	1	Motion	Distance and Displacement; Speed and velocity; Uniform and non-uniform acceleration;	
April			Derivation of equation of motion; Numerical; Distance-time and distance- velocity graphs;	
May			Equations of motion . Elementary idea of uniform circular motion; Numerical.	
Periodic Test- I				
June	2	Force and Newton's Laws of Motion.	Concept of force, balanced and unbalanced force	
July	2	Force and Newton's Laws of Motion.	First law of motion, Inertia and Mass; Linear momentum; Newton's second law of motion; Mathematical formulation of Newton's second law of motion.	
July			Newton's third law of motion, action and reaction forces.	
August			Elementary idea of conservation of momentum; Numerical problems	
Periodic Test- II				

September	3	Gravitation	Universal laws of gravitation; Force of gravitation on earth (gravity); Acceleration due to gravity; Motion under the influence of gravity; Mass and weight, free fall; Numerical problems.	Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.
October	3	Gravitation	Thrust and pressure; Archimedes Principle; Buoyancy Numerical problems.	Establishing the relation between the loss in weight of a solid when fully immersed in a) tap water b) strongly salty water, with the weight of water displaced by it by taking at least two different solids.
November	4	Work, Energy and Power	Work done by the force, $W = F \times s \cos\theta$; Concept of positive, negative and zero work done; Numerical problems	
Periodic Test- III				
November	4	Work, Energy and Power	Energy, Kinetic and potential energy; Law of conservation of energy; Power; Numerical problems.	
December	5	Sound	Production of sound; Sound needs a material medium to travel; Nature of sound and its propagation in various medium, speed of sound; Characteristic of sound, range of hearing.	Verification of the Laws of reflection of sound.
January	6	Sound	Reflection of sound- Echo, SONAR; Numerical problems	Determination of the speed of a pulse propagated through a stretched string/slink (helical spring).
January	Revision			
February	Annual Examination			
Syllabus for Annual Examination : Entire syllabus as prescribed by CBSE				

