

D.A.V. Public School
Affiliated to CBSE(10+2)
Sector – 3 Dhurwa Ranchi-

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Class IX PHYSICS Syllabus(2020-2021)

MONTH	CHAPTER	TOPIC	EXAM / TESTS PORTION
APRIL	CH-1 (Motion)	Describing motion, motion along a straight line, uniform motion and non-uniform motion, rate of motion. Scalars and vectors speed with direction, rate of change of velocity, distance-time graph, velocity-time graph, equations of motion by graphical method.	
MAY	CH-1 (Motion)	Equation for velocity-time relation, equation for position- time relation, equation for position- time relation, equation for position- velocity relation, circular motion, uniform circular motion, NCERT (INTEXT AND EXERCISE problem)	
JUNE	CH-2 (Force and Newton's law of motion)	Introduction of force and motion, balanced and unbalanced forces, first law of motion, inertia and mass, linear momentum, second law of motion, third law of motion, conservation of linear momentum, action and reaction forces, application of these laws, NCERT (INTEXT AND EXERCISE problem)	
JULY	CH-3 (gravitation)	Introduction of force due to gravity and gravitational forces, universal law of gravitation, Kepler's law of planetary motion, importance of the universal law of gravitational, free fall, acceleration due to gravity, motion of objects under the force of gravity, mass and weight, weight of an object on the moon. NCERT (INTEXT AND EXERCISE problems)	
AUGUST	CH-4 Gravitation (Floatation)	Thrust and pressure, pressure in fluids, buoyancy, conditions for floating and sinking of an object on the surface of liquids, Archimedes's Principle, application of Archimedes's principle, elementary idea of relative density, NCERT (INTEXT and EXERCISE).	PT-1 Portion Ch- 1, 2

SEPT	REVISION	HALF YEARLY EXAM	HALF YEARLY EXAM Portion Ch-1,2 & 3
OCT	CH-5 (Work and	Introductionofwork,scientificconceptofwork,workdoneby	

	Energy)	aconstantforce,energy,formsofenergy,mechanicalenergy, kineticenergy,potentialenergy,potentialenergyofanobject at aheight.	
NOV		Revision For PT-2 EXAM	PT-2 EXAM Portion Ch-3 & 4
DEC	CH-5 (Work and Energy) Ch-6 (Sound)	Conversionofenergy,lawofconservationofenergy,rateof doingwork,commercialunitofenergy,calculationofbilling, work- energy theorem, NCERT (INTEXT and EXERCISES problems) Productionofsound,propagationofsound,typesofwaves, characteristics of sound waves, Speed of sound, Echo, reverberation,multiplesreflection&itsapplications,rangeof hearing,applicationofultrasound,SONAR,structureofHuman ear.NCERT(INTEXT and EXERCISE Problems)	
JAN		Revision	PT-3 Exam Portion Ch-4 & 5
FEB		Revision Assignments and solving sample paper	Annual Exam Portion Complete Book