

**D.A.V. Public School**  
**Affiliated to CBSE(10+2)**  
**Sector – 3 Dhurwa Ranchi-4**

**Class IX PHYSICS Syllabus(2019-2020)**

| 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-3 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 principal, elementary idea of relative density, NCERT (INTEXT and EXERCISE ) .  | <b>PT-1 Portion</b><br>Ch- 1, 2               |
| SEPT   | REVISION                                | HALF YEARLY EXAM  | <b>HALF YEARLY EXAM Portion</b><br>Ch-1,2 & 3 |
| OCT    | CH-4 (Work and                          | Introduction of work, scientific concept of work ,work done by  |   |

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|-----|--|--|---|
|     | Energy)                                    | a constant force, energy, forms of energy, mechanical energy, kinetic energy, potential energy, potential energy of an object at a height.   |   |
| NOV |  | Revision For PT-2 EXAM   | <b>PT-2 EXAM Portion</b><br>Ch-3 & 4        |
| DEC | CH-4 (Work and Energy)<br><br>Ch-5 (Sound) | Conversion of energy, law of conservation of energy, rate of doing work, commercial unit of energy, calculation of billing , work- energy theorem, NCERT (INTEXT and EXERCISES problems)<br>Production of sound, propagation of sound, types of waves, characteristics of sound waves, Speed of sound, Echo, reverberation, multiples reflection & its applications, range of hearing, application of ultrasound ,SONAR, structure of Human ear. |   |
| JAN |  | Revision   | <b>PT-3 Exam Portion</b><br>Ch-4 & 5        |
| FEB |  | Revision<br>Assignments and solving sample paper   | <b>Annual Exam Portion</b><br>Complete Book |