



SANT NANDLAL SMRITI VIDYA MANDIR, GHATSILA
YEARLY SYLLABUS OF PHYSICS
SESSION : 2026-2027
STD – IX



MONTH	NO. OF CLASSES	TOPIC TO BE TAUGHT	ACTIVITY	LEARNING OUTCOME	VALUES & SKILLS IMPARTED	ASSESSMENT
April-May	23+8	Motion	• Distance vs displacement activity • Graph plotting (position-time, velocity-time) • Real-life motion examples	• Differentiate speed, velocity, acceleration • Interpret graphs • Apply kinematic equations	• Analytical thinking • Graph interpretation • Problem-solving	* Exercise Questions & Answers to be assessed * MCQ based Questions * Numerical problems * Case study-based questions * Assertion Reason Questions
June-July	11+26	Force and Laws of Motion	• Demonstration of inertia • Friction experiments • Daily life applications	• Understand Newton's laws • Apply $F = ma$ • Explain real-life motion	• Logical reasoning • Scientific thinking • Application skills	* Exercise Questions & Answers to be assessed * MCQ based Questions * Numerical problems * Case study-based questions * Assertion Reason Questions
August	23	Work, Energy and Power	• Work calculation activity • Energy conversion demo • Power calculation tasks	• Define work & energy • Apply formulas • Understand conservation of energy	• Concept clarity • Mathematical skills • Practical understanding	* Exercise Questions & Answers to be assessed * MCQ based Questions * Numerical problems * Case study-based questions * Assertion Reason Questions
September	23		Revision and Half Yearly Exam			
October - November	16+19	Simple Machines	• Lever & pulley models • Mechanical advantage experiment • Inclined plane demo	• Understand machine types • Calculate mechanical advantage • Apply in daily life	• Innovation • Practical skills • Observation	* Exercise Questions & Answers to be assessed * MCQ based Questions * Numerical problems * Case study-based questions * Assertion Reason Questions
December – January	19+20	Sound	• Vibration experiments • Wave demonstration • Echo activity	• Understand sound production • Explain wave properties • Apply in real life	• Scientific observation • Analytical skills • Conceptual clarity	* Exercise Questions & Answers to be assessed * MCQ based Questions * Numerical problems

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February	23		Revision and Annual Examination			* Case study-based questions * Assertion Reason Questions

Submitted by : Swaraj Kumar Rana
Principal