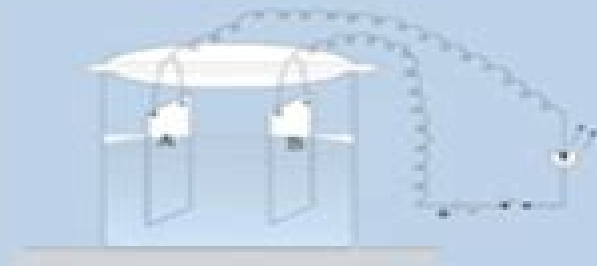


# LABORATORY MANUAL

Class XII

# PHYSICS



# Ncert Physics Manual

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## **Ncert Physics Manual:**

*Practical/Laboratory Manual Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal* Dr. J. P. Goel ,Er. Meera Goyal,2020-06-26

**EXPERIMENTS**

1 Measurement of Length 1 To measure the diameter of a small spherical cylindrical body by using a vernier callipers 2 To measure the dimensions of a given regular body of known mass using vernier callipers and hence find its density 3 To measure the internal diameter and depth of a given cylindrical vessel say calorimeter beaker by using vernier callipers and hence find its internal volume i e capacity Viva voce 2 Screw Gauge Micrometer 4 To determine the diameter of a given wire using a screw gauge and find its volume 5 To find the thickness of a given sheet with the help of screw gauge 6 To measure the volume of an irregular lamina by using a screw gauge Viva voce 3 Spherometer 7 To measure the radius of curvature of a given spherical surface convex lens by using a spherometer Viva voce 4 Mass and Weight 8 To determine the mass of two different objects using a beam balance Viva voce 5 Parallelogram Law of Vectors 9 To find the weight of a given body using parallelogram law of vectors Viva voce 6 Simple Pendulum Measurement of Time 10 Using a simple pendulum plot  $L$   $T$  and  $L$   $T^2$  graphs Hence find the effective length of a second s pendulum using appropriate graphs Viva voce 7 Friction 11 To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface Viva voce 8 Motion of a Body Along an Inclined Plane 12 To find the downward force along an inclined plane acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and  $\sin$  Viva voce

**SECTION B EXPERIMENTS**

1 Elasticity 1 To determine the Young s modulus of elasticity of the material of the wire using Searle s apparatus Viva voce 2 Spring Constant 2 To find the spring constant of a helical spring by plotting load extension graph Viva voce 3 Boyle s Gas Law 3 To study the variation in volume with pressure for a sample of air constant temperature by plotting graphs between  $P$  and  $V$  and between  $P$  and  $1/V$  18 Viva voce 4 Surface Tension 4 To determine the surface tension of water by capillary rise method Viva voce 5 Viscosity 5 To determine the co effective of viscosity of given liquid by measuring the terminal velocity of a given spherical body in it Viva voce 6 Newton s Law of Cooling 6 To study the relationship between temperature of a hot body and time by plotting a cooling curv Viva voce 7 Vibrations of Strings 7 To study the relation between frequency and length for a given wire under constant tension using a sonometer Viva voce 8 To study the relation between the length of a given wire and tension for constant frequency using sonometer Viva voce 8 Vibrations of Air Columns 9 To find the velocity of sound in air at room temperature using a resonance tube by two resonance position Viva voce 9 Specific Heat 10 To determine specific heat of a given solid by the method of mixture 11 To determine the specific heat of a given liquid by method of mixture Viva voce

**SECTION A ACTIVITIES**

1 To make a paper scale of given least count e g 0 2 cm 0 5 cm and use it to measure the length of a given object 2 To determine the mass of a given body using a metre scale and by applying principle of moments Viva voce 3 To plot a graph for a given set of data using proper choice of scales and error bars Viva

voce 4 To measure the force of limiting friction for rolling of a roller on horizontal plane Viva voce 5 To study the variation in the range of a jet of water with angle of projection Viva voce 6 To study the conservation of energy of a ball rolling down on inclined plane using a double inclined plane Viva voce 7 To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time Viva voce SECTION B ACTIVITIES 1 To observe the change of the state and plot a cooling curve for molten wax Viva voce 2 To observe and explain the effect of heating on a bimetallic strip Viva voce 3 To note the change in level of liquid in a container on heating and interpret the observations Viva voce 4 To study the effect of detergent in surface tension by observing capillary rise Viva voce 5 To study the factors affecting the rate of loss of heat of a liquid Viva voce 6 To study the effect of load on depression of a suitably clamped meter scale loaded i at its end ii in the middle Viva voce 7 To observe the decrease in pressure with the increase in velocity of the fluid Viva voce APPENDIX Some Important Tables of Physical Constants Log Antilog and other Tables      Oswaal CBSE & NCERT One for All Class 12 Physics (For 2024 Exam) Oswaal Editorial Board, 2023-07-19 Description of the product Strictly as per the latest CBSE Syllabus dated March 31 2023 Cir No Acad 39 2023 Acad 45 2023 100 % Updated for 2023 24 with Latest Rationalized NCERT Textbooks Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year s Questions Board Marking Scheme Answers Valuable Exam Insights with 3000 NCERT Exemplar Questions Extensive Practice with Unit Wise Self Assessment Questions Practice Papers NEP Compliance with Competency based questions      **NCERT English Class 12** Rajamohan Srivastava, , Amit Ganguli, 2025-04-20 Section A Flamingo Prose and Poetry Flamingo A Prose 1 The Last Lesson Alphonse Daudet 2 Lost Spring Arundhati Jay 3 Deep Water William Douglas 4 The Rattrap Selma Lagerlof 5 Indigo Louis Fischer 6 Poets and Pancakes Ashokmitran 7 The Interview Christopher Silverster 8 Going Places A P Barton Flaming B Poetry 1 My Mother at sixty Six Kamala Das 2 An Elementary School Classroom in a Slum Stephen Spender 3 Keeping Quiet Pablo Neruda 4 A Thing of Beauty John Keats 5 A Roadside Stand Robert Frost 6 Aunt Jennifer s Tigers Adrienne Rich Section B Vistas Supplementary Reader 1 The Third Level Jack Finney 2 The Tiger King Kalki 3 Journey to the End of the Earth Tishani Doshi 4 The Enemy Pearl s Buck 5 Should Wizard Hit Mommy John Updike 6 On the Face of it Susan Hill 7 Evans Tries an O Level Colin Dexter 8 Memories of Childhood Zitkala Sa and Bama Section C Grammar Reading and Writing 1 Unseen Passage 2 Case Based Factual Passages 3 Advertisement Notice and Poster 4 Writing Invitation and Replies 5 Letter Writing 6 Report Writing 7 Article 8 Debate 9 Speech Writing Board Examination Paper      Oswaal CBSE & NCERT One for All | Class 12 Physics For 2025 Board Exam Oswaal Editorial Board, 2024-07-06 Description of the Product 100 % Updated as per latest syllabus issued by CBSE Extensive Theory with Concept wise Revision Notes Mind Maps and Mnemonics Visual Learning Aids with theoretical concepts and concept videos NEP Compliance with inclusion of CFPQ Learning Framework questions issued by CBSE Valuable Exam Insights with all NCERT Textbooks questions important NCERT Exemplar questions with solutions Exam Readiness with Previous Years Questions SQP Questions and Board Marking

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beschädigte klm maschine stürzte nach der kollision auf die startbahn zurück

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