

Core Science Lab Manual with **Practical Skills** 

CONTRA BROTHERS PRAKASHAN

10

# **Lab Manual Science Class X Cbse Goyal Brothers**

Mr. Rohit Manglik, Mr. Mohit Triphathi

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2 To identify a diode a LED a transistor and IC a resistor and a capacitor from mixed collection of such items 3 Use of multimeter to i identify base of transistor ii distinguish between npn and pnp type transistors iii see the unidirectional flow of current in case of a diode and a LED iv check whether a given electronic component e g diode transistor or I C is in working order 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab 5 To observe polarization of liquid using two Polaroids 6 To observe diffraction of light due to a thin slit 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using a candle and a screen for different distances of the candle from the lens mirror 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses Suggested Investigatory Projects 1 To investigate whether the energy of a simple pendulum is conserved 2 To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum 3 To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration 4 To compare effectiveness of different materials as insulators of heat 5 To determine the wavelengths of laser beam by diffraction 6 To study various factors on which the internal resistance emf of a cell depends 7 To construct a time switch and study dependence of its time constant on various factors 8 To study infrared radiations emitted by different sources using photo transistor 9 To compare effectiveness of different materials as absorbers of sound 10 To design an automatic traffic signal system using suitable combination of logic gates 11 To study luminosity of various electric lamps of different powers and make 12 To compare the Young s modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve 13 To study collision of two balls in two dimensions 14 To study frequency response of i a resistor an inductor and a capacitor ii RL circuit iii RC circuit iv LCR series circuit Science Lab Manual Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual Lab.Manual For Science & Tech. Class (Ix) Cbse (2nd Edition) Rishi, Menon, 2007-01-01 Lab Manual-Physics-TB-11 E-R1 Dr R K Gupta, Lab Manual Physics TB 11 E R1 **Laboratory Manual for Chemistry** Lab Manual to Accompany Physical Science Bill W. Tillery, Tillery Bill, 2006-03 .1966 **Laboratory Manual for Science** \( \begin{aligned} \begin{aligned} \begin{aligned} 8 \\ A. \\ K. \\ Raj, \text{Laboratory Manual for Science is a series of five books for classes 6 to 10 These are complimentary to the Science textbooks of the respective classes The manuals cover a wide range of age appropriate experiments that give hands on experience to the students The experiments help students verify scientific truths and principles and at the same time expose them to the basic tools and techniques used in scientific investigations. Our manuals aim not only to help students better comprehend the scientific concepts taught in their textbooks but also to ignite a scientific quest in their Lab Manual for Physical Science Bill W. Tillery, 2016-02-09 The laboratory manual written and young inquisitive minds classroom tested by the author presents a selection of laboratory exercises specifically written for the interests and abilities of nonscience majors. There are laboratory exercises that require measurement data analysis and thinking in a more structured learning environment while alternative exercises that are open ended Invitations to Inquiry are provided for

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