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## PRACTICAL MANUAL

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# Cbse Practicals Physics Manual 12th

**Jicheng Xie**



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procedure for each experiment Necessary precautions to be followed for the experiment Viva Voce Questions to get an understanding on the experiment Suggested Investigatory Projects of the CBSE curriculum Clearly labeled Diagrams in each experiment Appendices related to some useful data TABLE OF CONTENT General Introduction of Practical Work How to Record an Experiment Experimental Errors Logarithms Basic Trigonometry Study of Graphs Section A Experiments Activities Section B Experiments Activities Suggested Investigatory Projects Appendices

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Sharma,2020-04-16 Goyal Brothers Prakashan Lab Sparks: Amazing Physics - Level-1 for Classes 6-8: A Student-Friendly Practical Manual | You Can See, Feel & Explore! | 35+ Visual Experiments Based on NCERT/CBSE & NEP 2020 KUNDAN KUMAR,2025-10-13 Discover the Magic of Physics with Over 35 Fun Safe Experiments That Will Blow Your Mind Welcome to Lab Sparks Amazing Physics Level 1 a student friendly practical manual designed for curious minds in Classes 6 8 Ages 10 14 This book brings physics to life through fun safe and visually engaging experiments that you can do at home or in school From spinning gyroscopes to balloon powered cars from bending light with water to watching sound waves vibrate every experiment is crafted to make science an experience not just a subject What s Inside Step by step instructions with emoji based visuals Real life connections see how physics works in everyday life Student reflections fun facts after each experiment Safety tips for every activity Aligned with NCERT CBSE syllabus and NEP 2020 guidelines Perfect for project files science fairs and classroom learning Imagine Watching a fire tornado dance in a jar Making a rainbow with just a mirror and water Building a hovercraft from a CD and balloon Feeling sound waves with your own hands Spinning motors using just magnets and wires This book is more than a lab manual it s a spark that ignites curiosity builds scientific thinking and turns every young learner into a real life physicist Perfect For CBSE State Board Students Class 6 8 Science Teachers Homeschooling Parents School Practical Files Science Exhibition Projects Gift for Young Scientists Who Love to Explore By Kundan Kumar PGT Chemistry Creator of Short Sweet Chemistry YouTube and Founder of Short Sweet Services Because Physics Isn t Just Formulas It s Energy in Motion Ready to turn ordinary ingredients into extraordinary adventures Let s get started

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**Physics Lab Manual Class XI | According to the latest CBSE syllabus and other State Boards following the CBSE curriculum** Mr. Rohit Manglik,Mr. Pradeep Dwivedi,2022-08-04 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted top the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Physics Chemistry and Biology means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel, Er. Meera Goyal,2020-06-24 SECTION A EXPERIMENTS 1 To determine resistance per cm of a given wire by plotting a graph for potential difference versus current 2 To find resistance of a given wire using meter bridge and hence determine the specifi resistance Resistivity of its material 3 To verify the laws of combination Series Parallel of resistance using ameter bridge 4 To compare the e m f of two given primary cells using potentiometer 5 To determine the

internal resistance of a given primary cell e.g. Leclanche cell using potentiometer

6 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit

7 A To convert a given galvanometer of known resistance and figure of merit into an ammeter of desired range and to verify the same

7 B To convert a given galvanometer of known resistance and figure of merit into a voltmeter of desired range and to verify the same

8 To find the frequency of AC mains with a sonometer and horse shoe magnet

### SECTION B EXPERIMENTS

1 To find the value of  $v$  for different values of  $u$  in case of a concave mirror and to find the focal length

2 To find the focal length of a convex lens by plotting graph between  $u$  and  $v$  or  $1/u$  and  $1/v$

3 To find the focal length of a convex mirror using a convex lens

4 To find the focal length of a concave lens using a convex lens

5 To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation

6 To determine refractive index of a glass slab using a travelling microscope

7 To find the refractive index of a liquid by using a convex lens and a plane mirror

8 To draw I-V characteristics curve of a p-n junction in forward bias and reverse bias

9 To draw the characteristics curve of a zener diode and to determine its reverse break down voltage

10 To study the characteristics of a common emitter n-p-n or p-n-p transistor and to find out the values of current and voltage gains

### SECTION A ACTIVITIES

1 To measure the resistance and impedance of an inductor with or without iron core

2 To measure resistance voltage AC DC current AC and check continuity of given circuit using multimeter

3 To assemble a household circuit comprising of three bulbs three on/off switches a fuse and a power source

4 To assemble the components of a given electrical circuit

5 To study the variation in potential drop with length of a wire for a steady current

6 To draw the diagram of a given open circuit comprising at least a battery resistor rheostat key ammeter and voltmeter Make the components that are not connected in proper order and correct the circuit and also the circuit diagram

### SECTION B ACTIVITIES

1 To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor

2 To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items

3 Use a multimeter to

- identify the transistor
- distinguish between n-p-n and p-n-p type transistor
- see the unidirectional flow of current in case of a diode and a LED
- Check whether a given electronic components e.g. diode transistor or IC 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 polarisation of light 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

- convex lens
- concave mirror on a screen by using candle and a screen for different distance of the candle from the lens

8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

### SUGGESTED INVESTIGATORY PROJECT

1 To Study Various factors on which the Internal Resistance EMF of a cell depends

2 To study the variations in current following in a circuit containing L D R because of variation

- In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position
- In the Distance of an incandescent lamp of fixed power used to illuminate the L D R

3 To find the refractive indices of a Water b Oil Transparent using a plane

mirror an equiconvex lens made from a glass of known refractive index and an adjustable object needle 4 To design an appropriate logic gate combination for a given truth table 5 To investigate the relation between the ratio of i Output and Input voltage ii Number of turns in secondary coils and primary coils of a self designed transformer 6 To Investigate the dependence of angle of deviation on the angle of incidence using a hollow prism filled one by one with different transparent fluids 7 To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of Coulomb's Law 8 To study the factors on which the self inductance of a coil depends by observing the effect of this coil when put in series with a resistor bulb in a circuit fed up by an a.c. source of adjustable frequency 9 To study the earth's magnetic field using a tangent galvanometer APPENDIX Some Important Tables of Physical Constants Logarithmic and other Tables

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