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# SCIENCE LAB MANUAL

Internal Assessment



10



## Salient Features

- Introduction
- Basic Concepts of Experiments
- Lab Experiments with Interactive Session & NCERT Lab Manual Questions
- Practical Based Questions [with Answers]



**RACHNA  
SAGAR**

# Class 10 Science Lab Manual Ncert

**RADHA MOHAN**



## **Class 10 Science Lab Manual Ncert:**

### **Oswaal CBSE Question Bank Class 10 Science, Chapterwise and Topicwise Solved Papers For Board Exams**

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**Lab Manual Science Class 10** Neena Sinha, R.Rangarajan, Rajesh Kumar, These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus The various objectives materials required procedures inferences etc have been given in a step by step manner Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce

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**Complete Science Laboratory Manual CBSE For Class 10** Education Experts,2019-10 INNOVATIVE SCIENCE TEACHING RADHA MOHAN,2007-02-07 Science teaching has recently evolved as a blend of conventional methods and modern aids owing to the changing needs and techniques of education This updated Third Edition aims to strike this balance between modern teaching methods and time tested theories All the existing chapters are suitably updated and new chapters on theories of learning teaching models and statistics are included in the text Checklists are provided to help teachers handpick appropriate material from the vast available resources The introductory chapter on statistics should help them interpret and analyze the test scores of their students THIS NEW EDITION FEATURES Four new chapters Statistics for Science Teacher Theories of Learning Models of Teaching and Constructivism in Science Education Updated e learning materials and website addresses relevant to science teaching and teachers Completely revised chapters and elaborate coverage of all aspects of modern teaching This edition of Innovative Science Teaching is designed for the undergraduate and postgraduate students of education specializing in science teaching It can also be used as reference by physical science

teachers and teacher trainees      **Educart CBSE Hindi A Class 10 Sample Papers 2024-25 (With exclusive CBSE Mock Booklets for 2025 Exam)** Educart,2024-09-25 What You Get 50% Competency based Q sStep wise Marks Breakdown Educart CBSE Hindi A Class 10 Sample Paper 2024 25 With Exclusive Boards 2025 Sealed Mock Sets and Answer Writing Booklets Based on the CBSE Sample Paper released on 5th September 2024 Includes sample papers based on the new analytical exam pattern Detailed explanations for every solution Includes step wise mark breakdown table for every question Most likely sets of sample papers with answer booklets to prepare in an exam like environment Caution points Tips Tricks and related NCERT theory for concept clarity Why choose this book New sample papers help prepare as per the revised pattern on an increased percentage of analytical questions      *Academic Practical Science X* Dr. N. K. Sharma,Bishan Lal,2011-12      *Lab Manual Science Class 09* Neena Sinha, R.Rangarajan, Rajesh Kumar, These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus The various objectives materials required procedures inferences etc have been given in a step by step manner Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce      **Comprehensive Practical Science X** S. P. Saxena,Dheeraj Saxena,2011-12      **Indian National Bibliography** ,2015-07      **Practical/Laboratory Manual Science Class X based on NCERT guidelines by Dr. J. P. Goel, Dr. S. C. Rastogi, Dr. Sunita Bhagia & Er. Meera Goyal** Dr. J. P. Goel,Dr. S. C. Rastogi,Dr. Sunita Bhagia ,Er. Meera Goyal,2020-06-26 Physics 1 To determine the focal length of concave mirror 2 To find the focal length of convex lens by two pin method 3 To find the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed 4 To trace the path of the rays of light through a glass prism 5 To trace the path of a ray of light passing through a rectangular glass slab for different angles of incidence 6 To study the dependence of potential difference V across a resistor on the current I passing through it and determine its resistance Also plotting a graph between V and I 7 To determine the equivalent resistance of two resistors when connected in series and parallel Chemistry 8 To find the pH of the following samples by using pH paper universal indicator 9 To studying the properties of a base dil NaOH Solution and Acid HCl by their reaction with a Litmus solution Blue Red b Zinc metal c Solid sodium carbonate 10 To perform and observe the following reactions and to classify them into a Combination reaction b Decomposition reaction c Displacement reaction d Double displacement reaction i Action of water on quick lime ii Action of heat on ferrous sulphate crystals iii Iron nails kept in copper sulphate solution iv Reaction between sodium sulphate and barium chloride solutions 11 To observe the action of Zn Fe Cu and Al on the following salt solutions a  $ZnSO_4$  aq b  $FeSO_4$  aq c  $CuSO_4$  aq d  $Al_2 SO_4$  3 aq Based on the above result to arrange Zn Fe Cu and Al metals in the decreasing order of reactivity 12 To study the following properties of acetic acid ethanoic acid i Odour ii Solubility in water iii Effect on litmus iv Reaction with sodium hydrogen carbonate 13 To study the comparative cleaning capacity of a sample of soap in soft and hard water Biology 14 To study stomata by preparing a temporary mount of

a leaf peel 15 To show experimentally that carbon dioxide  $\text{CO}_2$  is given out during aerobic respiration 16 To study A Binary fission in Amoeba and B Budding in yeast with the help of prepared slides 17 To identify the different parts of an embryo of a dicot seed pea gram or red kidney beans

Practical/Laboratory Manual Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal Dr. S. C. Rastogi , Er. Meera Goyal, 2020-06-23 An Excellent Book in Accordance with the latest syllabus for Class 11 Prescribed by CBSE NCERT and Adopted by Various State Education Boards

**A Basic Laboratory Techniques**

- 1 To cut a glass tube or glass rod
- 2 To bend the glass rod at an angle
- 3 To draw a glass jet from a glass tube
- 4 To bore a cork and fit a glass tube into it

**B Characterisation and Purification of Chemical Substances**

- 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique
- 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
- 3 To prepare crystals of pure potash alum  $\text{K}_2\text{SO}_4 \cdot \text{Al}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$  from the given impure sample
- 4 To prepare the pure crystals of copper sulphate from the given crude sample
- 5 To prepare pure crystals of benzoic acid from a given impure sample

**C Measurement of pH Values**

- 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper
- 2 To determine and compare the pH values of solutions of strong acid  $\text{HCl}$  and weak acid  $\text{CH}_3\text{COOH}$  of same concentration
- 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper
- 4 To study the pH change by common ion  $\text{CH}_3\text{COO}^-$  ion in case of weak acid  $\text{CH}_3\text{COOH}$
- 5 To determine the change in pH value of weak base  $\text{NH}_4\text{OH}$  in presence of a common ion  $\text{NH}_4^+$

**D Chemical Equilibrium**

- 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions
- 2 To study the shift in equilibrium between  $\text{Co}^{2+}$  and  $\text{Cl}^-$  ions by changing the concentrations of either of the ions

**E Quantitative Analysis**

- 1 To prepare M 10 oxalic acid solution by direct weighing method
- 2 To prepare M 10 solution of sodium carbonate by direct weighing method
- 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid
- 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution

**F Qualitative Analysis**

- 1 Analysis of Anions
- 2 Analysis of Cations

**G Detection of Elements in Organic Compounds**

- 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test
- 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test

**INVESTIGATORY PROJECTS**

**A Checking of Bacterial Contamination in Water**

- 1 To check the bacterial contamination in drinking water by testing sulphide ions

**B Methods of Water Purification**

- 1 To purify water from suspended impurities by using sedimentation
- 2 To purify water by boiling
- 3 To purify water by distillation method
- 4 To purify water by reverse osmosis technique
- 5 To purify water by GAC method
- 6 To purify water by bleach treatment
- 7 To purify water by oxidising agent
- 8 To purify water by ozone treatment method

**C Water Analysis**

- 1 To test the hardness of different water samples

**D Foaming Capacity of Various Soaps**

- 1 To compare the foaming capacity of different washing soaps
- 2 To study the effect of

addition of sodium carbonate on foaming capacity of washing soap E Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper F Analysis of Fruits and Vegetable Juices 1 To analyse the fruit and vegetable juices for the constituent present in them G Rate of Evaporation 1 To study the rate of evaporation of different liquids H Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Log Antilog Table      *Core Science Lab Manual with Practical Skills for Class X* V. K. Sally, Chhaya Srivastava, Goyal Brothers Prakashan, 2019-01-17 Goyal Brothers Prakashan

**Science Lab Manual Class X Follows the Latest CBSE Syllabus and Other State Board Following the CBSE Curriculum.** Edugorilla Prep Experts, 2022-07-05 Theoretical knowledge is not sufficient for the overall development of the student's mind. So in order to enhance the mental skills of the Class 10 children, CBSE has introduced the concept of Science practicals which develops the overall understanding about the topic. This Class 10 Science Lab Manual strictly follows the CBSE based curriculum and other State Board patterns. Mr Gopi Chandra Gupta and Mr Shivam Tiwari are the authors of this Science Lab Manual which provides complete knowledge of each term, concepts and definitions so that students can refer to this manual for overall work. Viva Voce questions given in the Class 10 Science lab manual have experiments that aim to test a student's understanding of the related experiment. Some investigatory projects have also been included in this Science Lab Manual. This Lab Manual has well-labeled diagrams which clearly demonstrate the details of the apparatus that are used, the correct way of handling Laboratory apparatus and perform the experiments methodically. The basic purpose of this Lab Manual is to provide the students with appropriate guidance so that they can easily understand, carry out and document the experiments in the Science Laboratory. The Lab Manual comes with practical lessons followed by lab experiments after each chapter, projects and Notebook for jotting down all the essential information. The aim of this Science Lab Manual is to help Class 10 students to prepare and understand the complex Science concepts through experimental approach by utilizing pedagogically enhanced content of the Lab Manual and with a compact knowledge base for improving their analytical experimental skills and learning abilities.

**Laboratory Manual for Science □ 10** A. K. Raj, 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 young inquisitive minds.

**Mathematics Lab Manual Class X According to the Latest CBSE Syllabus and Other State Boards Following the CBSE Curriculum** Edugorilla Prep Experts, 2022-07-07 This ultimate Class 10 Mathematics Lab Manual covers the comprehensive resources to build strong foundations of Mathematics for the students who do not want to limit their knowledge to theories but also want

to draw the practicals to develop a better understanding about any complex formulas and theorems. The author of this class 10 Mathematics Lab Manual is Mr Mohit Tripathi who has presented the series of integrated information which is strictly based on the latest CBSE Pattern and other State Boards curricula as well. The transdisciplinary approach of this Lab Manual is to foster the inquisitive mindset, critical thinking and Mathematical aptitude amongst the early learners. The Class 10 Mathematics Lab Manual also includes all the projects and activities as per the latest NCERT curriculum. The theories mentioned with each of the activities in the Lab Manual gives a complete understanding of each concept and formulas. This class 10 Mathematics Lab Manual provides the step by step procedure, observations, calculations, results and Viva Voce questions in the ideal format that is followed in the Laboratory. The basic purpose of this lab manual not only eases the approach of the Laboratory courses but also to provide the students appropriate guidance required for carrying out the Experiments in math laboratories. All the Experiments in this manual have been given to conform to a systematic format that includes Theory, Material Required, Procedure, Observation, Result, Precautions, Viva Voce and Suggested Activities. The Viva Voce questions in the Manual are followed by the answers which will be useful for the CBSE and state board students. This Class 10 Mathematics Lab Manual comes with practical lessons followed by Lab activity and attached Notebook for jotting down all the essential information. The aim of this Mathematics Lab Manual is to prepare the Class 10 students using pedagogically enhanced content of the lab manual and with a compact knowledge base for improving their analytical, experimental skills and learning abilities.



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web hi xd aries girl here i m aries sun moon while my bf is scorpio sun and pisces moon it feels nice to be with him maybe it s coz i have pisces dc and 8th house stellium and he has leo dc sun in 9th house and sagittarius stellium to help on the

compatibility lol

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web a scorpio woman will help the aries man to be stabilized and to finish things rather than jumping into new projects without finishing the older ones these couples will be drawn closer to each other by physical attraction and strong desires however scorpio rarely lets ram to enjoy total freedom which is a basic need for him

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