

# SCIENCE

## LAB MANUAL



Introduction

|

Lab Experiment

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Viva Voce

A Complete Lab Activity Book

# 10th Grade Lab Manual Cbse

**Dr. Kamalkant, Dr. Bharati Khanna, Dr.  
Manmohan Singh**

## 10th Grade Lab Manual Cbse:

**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 Core Science Lab Manual with Practical Skills for Class X V. K. Sally, Chhaya Srivastava, Goyal Brothers Prakashan, 2019-01-17 Goyal Brothers Prakashan *Educart CBSE Question Bank Class 10 Mathematics 2024-25 (As per latest CBSE Syllabus 23 Mar 2024)* Educart, 2024-06-17 What You Get Time Management Charts Self evaluation Chart Competency based Q s Marking Scheme Charts Educart Mathematics Class 10 Strictly based on the latest CBSE Curriculum Special focus on Competency based Questions including all New Pattern Q s Simplified NCERT theory with diagram flowcharts bullet points and tables Includes Real life Examples for reliability to every NCERT concept Topper Answers of past 10 year board exams along with Marks Breakdown Tips 4 Solved Sample Papers as per the latest Sample paper design released with syllabus Why choose this book You can find the simplified complete with diagrams flowcharts bullet points and tables Based on the revised CBSE pattern for competency based questions Evaluate your performance with the self evaluation charts **Educart CBSE Question Bank Class 10 Science 2024-25 (As per latest CBSE Syllabus 23 Mar 2024)** Educart, Prashant Kirad, 2024-06-17 What You Get Time Management Charts Self evaluation Chart Competency based Q s Marking Scheme Charts Educart Science Class 10 Strictly based on the latest CBSE Curriculum Special focus on Competency based Questions including all New Pattern Q s Simplified NCERT theory with diagram flowcharts bullet points and tables Includes Real life Examples for reliability to every NCERT concept Topper Answers of past 10 year board exams along with Marks Breakdown Tips 4 Solved Sample Papers as per the latest Sample paper design released with syllabus Why choose this book You can find the simplified complete with diagrams flowcharts bullet points and tables Based on the revised CBSE pattern for competency based questions Evaluate your performance with the self evaluation charts **CBSE Class 12th Maths (10 Most likely Question Papers with Solution) By Career Point Kota** Career Point Kota, 2020-07-28 The CBSE has made certain changes in the assessment structure from the session 2019 20 onwards In the new scheme of examination CCE and term system has been replaced with the Internal Assessment Single Annual Exam by CBSE itself Single exam conducted by CBSE will carry 80 marks whereas 20 marks are left to the schools for internal assessment CBSE has issued detailed guidelines on how the internal marks will be divided among different activities From 2019 onwards there will be internal choices in board examinations with increased internal options in the question paper Considering this change now a student has to prepare accordingly for board examinations The new assessment format brought with it excitement as well as anxiety And to help them prepare and excel in their CBSE board examination Career Point Kota has developed a series of 10 Most Likely Question Papers with Solutions The Key Features of

Most Likely Question Papers with Solutions Series New OBJECTIVE TYPE question in each paper Syllabus of CBSE 2019 20 Based on the latest CBSE Syllabus Pattern Mind map of each chapter is given to visualize and help acquire a better understanding Important terms facts formulae and quick revision tips are given Covers questions asked in previous year board exams Toppers Answer Sheet as released by CBSE to understand the scoring technique We hope this book will gratify students need for the new CBSE pattern board exam and smoothen their path to success We wish to utilize the opportunity to place on record our special thanks to all the members of the Content Development team for their efforts to create this wonderful book

**Lab Manual Social Science Class 10** Arti Arora, Lab Manual *Complete Science Laboratory Manual CBSE For Class 10* Education Experts,2019-10

**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 has 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

Complete Mathematics Laboratory Manual CBSE For Class 10 Education Experts,2019-10

**Academic Practical Science X** Dr. N. K. Sharma,Bishan Lal,2011-12

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 idol 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      CBSE Laboratory Manual

MathematicsClass 9 Divya Malik,2022-12-13 Once William Paul Thurston said Mathematics is not about numbers equations computations or algorithms it is about Understanding It is a constant effort of NCERT that it puts on its textbooks to promote clearer understanding of concepts in every student As important as theoretical study is Practical study is also essential to prove theories into realities The freshly updated edition of LABORATORY MANUAL Mathematics for class IX has been designed as a complete package to understand all the relevant mathematical experiments in a simple lucid and interactive manner Strictly based on CBSE guidelines each activity includes theory to give deep insights into each concept formula term definition etc Viva Voce questions Notes Suggested Activities Applications etc are accumulated to make concepts clearer in accordance with the curriculum Along with the Activities all the projects listed in NCERT Lab Manual have also been properly covered This book serves as a step by step guide for conducting experiments in such a way that students will not need to refer to any other book for explanations of the concepts An all inclusive guidance book for Maths laboratory activities Coverage of each activity in a simple and lucid manner Detailed and Step by Step procedure for each activity Accurate Figures Illustrations and Diagrams in each activity Detailed Demonstration and Calculations with each activity Notes Applications etc with each activity TABLE OF CONTENT Activity 1 34 List of Projects To Develop Heron s formula for area of a triangle story of Chronology of Indian Mathematicians with their contributions Development of formula for the area of a cyclic quadrilateral With rectangle of given perimeter finding the one with a maximum area and with rectangle of given area finding the ones with least perimeter Knowledge and classification of solid figures with respect to surface areas and volumes Generation of Pythagorean triplets Magic squares with cuboid of given surface area finding the one with maximum volume

and with cuboid of given volumes finding one with least surface area Mathematical designs and patterns Application of algebra in day to day life *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  $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$  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 HCl and weak acid  $CH_3COOH$  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  $CH_3COO^-$  ion in case of weak acid  $CH_3COOH$
- 5 To determine the change in pH value of weak base  $NH_4OH$  in presence of a common ion  $NH_4^+$

**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  $Co^{2+}$  and  $Cl^-$  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      **Chemistry Lab Manual Class XI | Follows the Latest CBSE Syllabus and Other State Board Following the CBSE Curriculum.** Edugorilla Prep

Experts,2022-07-05 Theories are incomplete without experimentation So in order to enhance the practical skills of students the CBSE conducts the practical exams for class 11 chemistry along with theoretical exams to test the scientific aptitude of students CBSE Class 11th chemistry Lab Manual has been prepared strictly according to CBSE guidelines which follows the NCERT and other state board curriculum All the experiments in this Lab Manual have been given in a simple lucid and interactive manner The theory given with each experiment gives complete knowledge of each term concept and definition in order to provide a compact knowledge to the students at one place Viva Voce questions are given with each experiment to test students understanding of related experiments Mr Kaushalesh Dwivedi is the author of this complete lab activity book for class 11 chemistry All the lab based experiments have 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 this develops a better understanding about the concept behind each class 11 chemistry theory there is an experiment which brings authentic and easy to retain conclusions through its observations and which is verified on a real time basis The aim of this Science Lab Manual is to help class 11 students to prepare and understand the complex chemistry 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      **Complete Science Laboratory Manual CBSE For Class 9** Education Experts,2019-10      *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      *Science Lab Manual Stage 10* Dr. Kamalkant,Dr. Bharati Khanna,Dr. Manmohan Singh,2011-01-01      **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

*Lab.Manual For Science & Tech. Class (X) Cbse (2nd Edition)* Rishi,Menon,2007-01-01      **Chemistry Lab Manual**

**Class XII Follows the Latest CBSE Syllabus and Other State Board Following the CBSE Curriculum.** Edugorilla Prep Experts,2022-07-05 Chemistry is all about conducting various experiments and having a deep study about them This deep analysis and study cannot solely be done with theories and practical experiments are necessary for better skill development of the students Considering this every year CBSE conducts the chemistry practicals in addition to the theory examinations This class 12 chemistry lab manual contains all the essential information that the students will require while commencing the practicals CBSE class 12th chemistry lab manual has been prepared strictly according to CBSE guidelines which follows the NCERT and other State Board curriculum All the experiments in this lab manual have been given in a simple lucid and interactive manner The theory given with each experiment gives complete knowledge of each term concept and definition in order to provide a compact knowledge to the students at one place Viva Voce questions are given with each experiment to test students understanding of related experiments Mr Kaushalesh Dwivedi is the author of this complete lab activity book for class 12 chemistry All the lab based experiments have 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 12 students to prepare and understand the complex chemistry 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



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