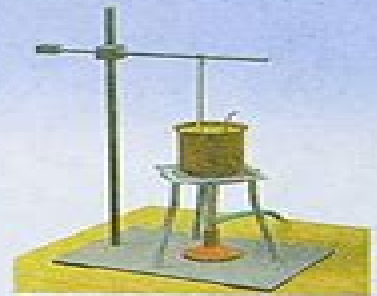


LABORATORY MANUAL


Class | X

SCIENCE



Ncert 10th Class Science Lab Manual 2012

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



Ncert 10th Class Science Lab Manual 2012:

Indian National Bibliography, 2015-07 **Complete Science Laboratory Manual CBSE For Class 10** 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 **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 **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 study 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_2SO_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 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

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

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. Science Lab Manual Stage 10 Dr. Kamalkant, Dr. Bharati Khanna, Dr. Manmohan Singh, 2011-01-01 Comprehensive Practical Science X S. P. Saxena, Dheeraj Saxena, 2011-12

Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines by Dr. S. C. Rastogi, Er. Meera Goyal Dr. S. C. Rastogi, Er. Meera Goyal, 2020-06-22 A Surface Chemistry 1 To prepare colloidal solution of starch 2 To prepare a colloidal solution of egg albumin 3 To prepare colloidal solution of gum 4 To prepare colloidal solution of aluminium hydroxide $Al(OH)_3$ 5 To prepare colloidal solution of ferric hydroxide $Fe(OH)_3$ 6 To prepare colloidal solution of arsenious sulphide As_2S_3 7 To purify a freshly prepared sol by dialysis 8 To compare the effectiveness of different common oils: Castor oil, cotton seed oil, coconut oil, kerosene oil, mustard oil in forming emulsions Viva Voce B Chemical Kinetics 1 To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid 2 To study the

effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid 3 To study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions 4 To study the rate of reaction between potassium iodate KIO_3 and sodium sulphite Na_2SO_3 using starch solution as indicatorl Viva Voce C

Thermochemistry 1 Determine the enthalpy of dissolution of copper sulphate $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ in water at Room temperature 2 To determine the enthalpy of neutralization of the reaction between HCl and NaOH 3 To determine enthalpy change during the interaction between acetone and chloroform Viva Voce D Electrochemistry 1 To study the variation of cell potential in $\text{Zn} | \text{Zn}^{2+} || \text{Cu}^{2+} | \text{Cu}$ with change in concentration of electrolytes CuSO_4 or ZnSO_4 at room temperature Viva Voce E Chromatography 1 To separate the coloured components pigment present in the given extract of leaves and flowers by ascending paper chromatography and find their R_f values 2 To separate the coloured components present in the mixture of red and blue inks by ascending paper chromatography and find their R_f values 3 To separate Co^{2+} and Ni^{2+} ions present in the given mixture by using ascending paper chromatography and determine their R_f values Viva Voce F Preparation of Inorganic Compounds 1 Preparation of double salt of ferrous ammonium sulphate Mohr's salt from ferrous sulphate and ammonium sulphate 2 To prepare a pure sample of potash alum fitkari 3 Preparation of crystals of potassium ferric oxalate or potassium trioxalato ferrate III Viva Voce G Preparation of Organic Compounds 1 Preparation of iodoform from ethyl alcohol or acetone 2 Preparation of acetanilide in laboratory 3 Preparation of β -Naphthol aniline dye 4 To prepare a pure sample of dibenzalacetone 5 To prepare a pure sample of p -nitro acetanilide Viva Voce H Tests for the Functional Groups Present in Organic Compounds Viva Voce I Study of Carbohydrates Fats and Proteins 1 To study simple reactions of carbohydrate 2 To study simple reactions of fats 3 To study simple reactions of proteins 4 To investigate presence of carbohydrates fats and proteins in food stuffs Viva Voce J Volumetric Analysis 1 To prepare 250 ml of $M/10$ solution of oxalic acid 2 To prepare 250 ml of $M/10$ solution of ferrous ammonium sulphate 3 Prepare $M/20$ solution of oxalic acid with its help find out the molarity and strength of the given solution of potassium permanganate 4 Prepare $M/20$ solution of Mohr's salt using this solution determine the molarity and strength of potassium permanganate solution Viva Voce K Qualitative Analysis Viva Voce

INVESTIGATORY PROJECTS 1 To study the presence of oxalate ions in guava fruit at different stages of ripening 2 To study the quantity of casein present in different samples of milk 3 Preparation of soyabean milk and its comparison with natural milk with respect to curd formation effect of temperature etc 4 To study the effect of potassium bisulphite as food preservative at various concentrations 5 To study the digestion of starch by salivary amylase and the effect of pH and temperature on it 6 To study and compare the rate of fermentation of the following materials wheat flour gram flour potato juice and carrot juice 7 To extract essential oils present in saunf aniseed ajwain coriander illaichi cardamom 8 To detect the presence of adulteration in fat oil and butter 9 To investigate the presence of NO_2 in brinjal

Science Lab Manual Class IX

| As Per the Latest CBSE Syllabus and Other State Board Following the Curriculum of CBSE. Edugorilla Prep

Experts,2022-08-18 The all new Class 9 Science Lab Manual by Mr Gopi Chandra Gupta and Mr Shivam Tiwari is strictly based on the curriculum prescribed by CBSE State Boards of Chhattisgarh Haryana Bihar Jharkhand Kerala Mizoram Meghalaya and other State Boards The Lab Manual contains the Viva Voce questions Projects Practicals and Theory it contains which are prepared in accordance with the CBSE and NCERT Guidelines This Science Lab Manual will help students of Class 9 to understand the step by step process for each of the science experiments with detailed explanation and develop a better understanding about the various concepts in a comprehensible manner The Viva voce questions have been designed as per the latest pattern prescribed by CBSE and the various State Boards This will help students in studying from the most authentic source thereby enhancing their skill developing a firm grip on the knowledge required for the science experiment The Lab Manual contains 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 Viva Voce questions in the Manual are followed by the answers which will be useful for state board students This Class 9 Science Lab Manual comes with practical lessons followed by Lab experiments after each chapter projects and Notebook for jotting down all the essential information

Biology Lab Manual Class XII As Per the Latest CBSE Syllabus and Other State Board Following the Curriculum of CBSE. Edugorilla Prep Experts,2022-07-05

The biology Lab Manual is prepared to provide the students with in depth knowledge about all the living elements in the universe through various experiments This complete lab activity book is written by Dr Priyanka Gupta which strictly follows the latest guidelines of CBSE and it includes the whole NCERT and 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 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 biology 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 attached notebook available for jotting down all the essential information The aim of this CBSE pattern based biology Lab Manual is to help class 12 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 □ 9 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 **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 **Practical/Laboratory**

Manual Science Class IX 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_2SO_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 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

Core Science Lab Manual with Practical Skills for Class IX V.
 K. Sally, Chhaya Srivastava, Goyal Brothers Prakashan, 2019-01-01 Goyal Brothers Prakashan NCERT Solutions - Science for Class 10th Geetika Khanna, Sk Singh, Kanchan Upreti, 2022-12-28 NCERT books are not only considered as best study materials for CBSE board exams but also for some highly competitive exams such as NEET JEE Main Advance etc The series NCERT SOLUTIONS for class VI XII offers a complete package of the syllabus along with well explained chapters of every subject in a concise way Here s reintroducing the freshly updated edition of the NCERT Exercises Solutions series NCERT SOLUTIONS SCIENCE which has been consciously designed for class X students This book provides a complete solution to all the chapter exercises of the NCERT book along with detailed explanations to grasp the concepts easily and enhance thinking and learning abilities To get a quick recap of each concept two Additional features that is Explanatory Solutions Notes are also included in each chapter This book also covers solutions to selected problems of NCERT Exemplar Problems A comprehensive Exercise solution book of NCERT Provides a complete solution to NCERT science Detailed Explanations to understand each concept easily Additional features include Explanatory Solutions Notes Covers solutions of NCERT Exemplar Problems TABLE OF CONTENT Chemical Reactions and Equations Acids Bases and Salts Metals and Non Metals Carbon and Its Compounds Periodic Classification of Elements Life Processes Control and Coordination How do Organisms Reproduce Heredity and Evolution Light Reflection and Refraction The Human Eye and the Colourful World Electricity Magnetic Effects of Electric Current Sources of Energy Our Environment Sustainable Management of Natural Resources

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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_2SO_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 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

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Table of Contents Ncert 10th Class Science Lab Manual 2012

1. Understanding the eBook Ncert 10th Class Science Lab Manual 2012
 - The Rise of Digital Reading Ncert 10th Class Science Lab Manual 2012
 - Advantages of eBooks Over Traditional Books
2. Identifying Ncert 10th Class Science Lab Manual 2012
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ncert 10th Class Science Lab Manual 2012
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ncert 10th Class Science Lab Manual 2012
 - Personalized Recommendations
 - Ncert 10th Class Science Lab Manual 2012 User Reviews and Ratings
 - Ncert 10th Class Science Lab Manual 2012 and Bestseller Lists
5. Accessing Ncert 10th Class Science Lab Manual 2012 Free and Paid eBooks

- Ncert 10th Class Science Lab Manual 2012 Public Domain eBooks
 - Ncert 10th Class Science Lab Manual 2012 eBook Subscription Services
 - Ncert 10th Class Science Lab Manual 2012 Budget-Friendly Options
6. Navigating Ncert 10th Class Science Lab Manual 2012 eBook Formats
- ePub, PDF, MOBI, and More
 - Ncert 10th Class Science Lab Manual 2012 Compatibility with Devices
 - Ncert 10th Class Science Lab Manual 2012 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Ncert 10th Class Science Lab Manual 2012
 - Highlighting and Note-Taking Ncert 10th Class Science Lab Manual 2012
 - Interactive Elements Ncert 10th Class Science Lab Manual 2012
8. Staying Engaged with Ncert 10th Class Science Lab Manual 2012
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ncert 10th Class Science Lab Manual 2012
9. Balancing eBooks and Physical Books Ncert 10th Class Science Lab Manual 2012
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ncert 10th Class Science Lab Manual 2012
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ncert 10th Class Science Lab Manual 2012
- Setting Reading Goals Ncert 10th Class Science Lab Manual 2012
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ncert 10th Class Science Lab Manual 2012
- Fact-Checking eBook Content of Ncert 10th Class Science Lab Manual 2012
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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