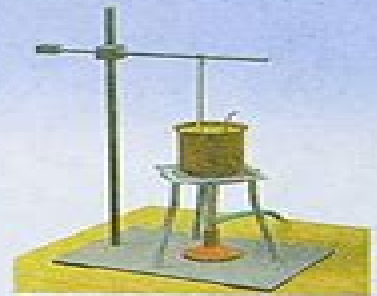


# LABORATORY MANUAL

Class | X

# SCIENCE



# Ncert 10th Class Science Lab Manual 2012

**V. K. Sally, Chhaya Srivastava, Goyal  
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## **Ncert 10th Class Science Lab Manual 2012:**

**Indian National Bibliography** ,2015-07      **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

*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

**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

**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 *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 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      *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      *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      *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

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 sol 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 indicator  
Viva Voce C Thermochemistry 1 Determine the enthalpy of dissolution of copper sulphate  $CuSO_4 \cdot 5H_2O$  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  $Zn|Zn^{2+}||Cu^{2+}|Cu$  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  
**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  $\beta$ -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 caseine 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 corum illaichi cardamom  
 8 To detect the presence of adulteration in fat oil and butter  
 9 To investigate the presence of  $NO_2$  in brinjal

*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 *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 *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 *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 difference 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  $\text{ZnSO}_4$  aq b  $\text{FeSO}_4$  aq c  $\text{CuSO}_4$  aq d  $\text{Al}_2\text{SO}_4$  3 aq Based on the above result to arrange Zn Fe Cu and Al metals in the decreasing order or 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

**Core Science Lab Manual with Practical Skills for Class IX** V. K. Sally, Chhaya Srivastava, Goyal Brothers Prakashan, 2019-01-01 Goyal Brothers Prakashan

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