

# SCIENCE LAB MANUAL

Internal Assessment



10

# Salient Features

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



RACHNA SAGAR



# Vis Ncert Lab Manual Science Class 10

**McDougal** 

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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 **Complete Science Laboratory Manual CBSE For Practical/Laboratory Manual Science Class X** Class 10 Education Experts, 2019-10 Indian Books in Print ,2003 based on NCERT guidelines by Dr. J. P. Goel, Dr. S. C. Rastogi, Dr. Sunita Bhagia & Er. Meera Goval 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 guick 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 ZnSO4 ag b FeSO4 ag c CuSO4 ag d Al2 SO4 3 ag 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 CO2 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. 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Comprehensive Practical Science X S. P. Saxena, Dheeraj Saxena, 2011-12 Lab.Manual For Science & Tech. Class (X) LK-Science-HB-09-R R Rangarajan, Neena Sinha, Rajesh Kumar, LK Cbse (2nd Edition) Rishi, Menon, 2007-01-01 Biology Lab Manual Grade 10 4th Edition 268094 4th Edtn, 2011-03-15 Biology Lab Manual 4th ed Science HB 09 R includes a lab exercise for each chapter with clear detailed instructions Each lab exercise includes questions to help students connect their observations with broader scientific concepts **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 Science <u>Lab Manual</u> Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual **Complete Science Laboratory Manual CBSE For Class 9** Education Experts, 2019-10 Practical/Laboratory Manual Science Class IX based on NCERT quidelines 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

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