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# LABORATORY MANUAL SCIENCE

**CLASS IX**

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# Lab Manual Experiment Science Class 9th

**Michael E. Auer, Dominik May**



## Lab Manual Experiment Science Class 9th:

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Mr. Gopi Chandra Gupta, Mr. Shivam Tiwari, 2022-08-01 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted to the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Mathematics and Science means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable

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Core Science Lab Manual with Practical Skills for Class IX V. K. Sally, Chhaya Srivastava, Goyal Brothers Prakashan, 2019-01-01 Goyal Brothers Prakashan **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 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<sub>2</sub> 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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**Pedagogy of Science** Mr. Rohit Manglik,2023-03-23 In this book we will study about strategies to teach scientific concepts experimentation and inquiry based learning **Lab Manual to Accompany the Science of Animal Agriculture** Ray V. Herren, Frank Flanders,1993-10 **Research in Education** ,1970 **Cross Reality and Data Science in Engineering** Michael E. Auer, Dominik May,2020-08-20 Today online technologies are at the core of most fields of engineering and society as a whole This book discusses the fundamentals applications and lessons learned in the field of online and remote engineering virtual instrumentation and other related technologies like Cross Reality Data Science Big Data Internet of Things Industrial Internet of Things Industry 4 0 Cyber Security and M2M Smart Objects Since the first

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