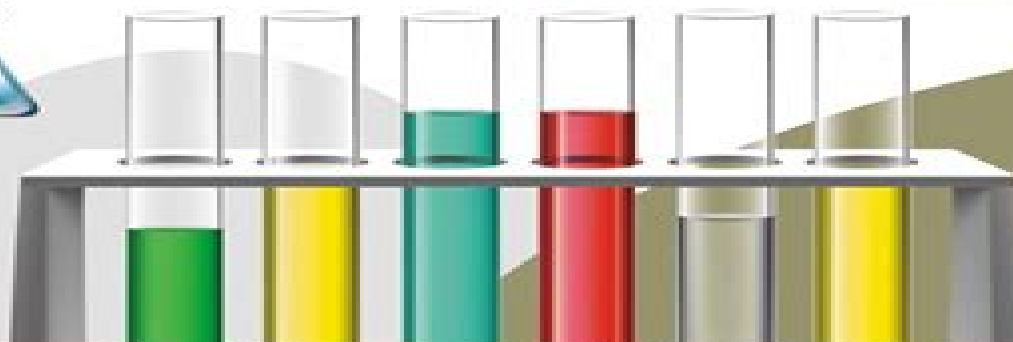
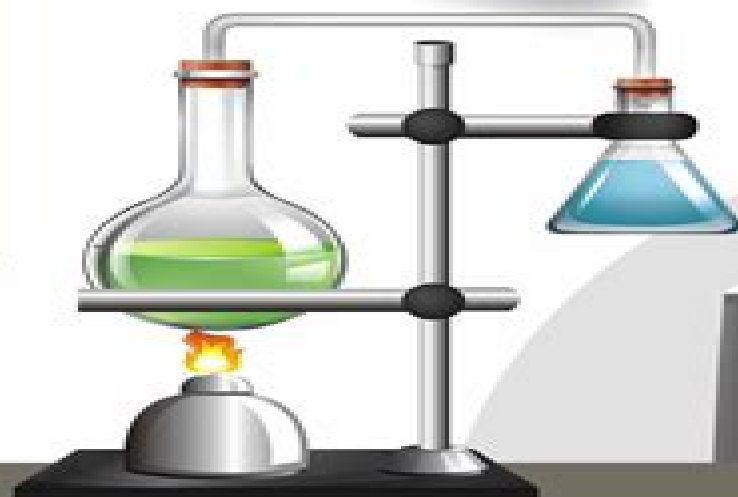


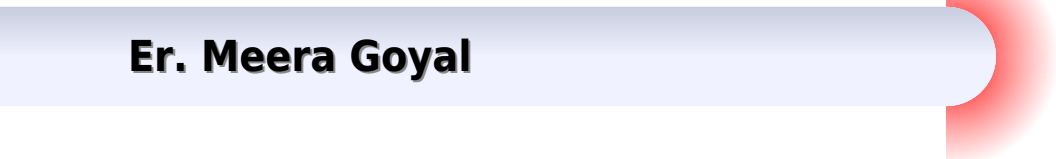
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PRACTICAL/LAB MANUAL/PROJECT
CHEMISTRY
CLASS 11



Ncert Cbse Practical Lab Manual Class 1

Er. Meera Goyal



Ncert Cbse Practical Lab Manual Class 1:

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

Practical/Laboratory Manual Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal Dr. J. P. Goel, Er. Meera

Goyal, 2020-06-24 SECTION A EXPERIMENTS 1 Measurement of Length 1 To measure the diameter of a small spherical cylindrical body by using a vernier callipers 2 To measure the dimensions of a given regular body of known mass using vernier callipers and hence find its density 3 To measure the internal diameter and depth of a given cylindrical vessel say calorimeter beaker by using vernier callipers and hence find its internal volume i.e. capacity Viva voce 2 Screw Gauge Micrometer 4 To determine the diameter of a given wire using a screw gauge and find its volume 5 To find the thickness of a given sheet with the help of screw gauge 6 To measure the volume of an irregular lamina by using a screw gauge Viva voce 3 Spherometer 7 To measure the radius of curvature of a given spherical surface convex lens by using a spherometer Viva voce 4 Mass and Weight 8 To determine the mass of two different objects using a beam balance Viva voce 5 Parallelogram Law of

Vectors 9 To find the weight of a given body using parallelogram law of vectors Viva voce 6 Simple Pendulum Measurement of Time 10 Using a simple pendulum plot L T and L T^2 graphs Hence find the effective length of a second's pendulum using appropriate graphs Viva voce 7 Friction 11 To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface Viva voce 8 Motion of a Body Along an Inclined Plane 12 To find the downward force along an inclined plane acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and $\sin$ Viva voce SECTION B EXPERIMENTS 1 Elasticity 1 To determine the Young's modulus of elasticity of the material of the wire using Searle's apparatus Viva voce 2 Spring Constant 2 To find the spring constant of a helical spring by plotting load extension graph Viva voce 3 Boyle's Gas Law 3 To study the variation in volume with pressure for a sample of air constant temperature by plotting graphs between P and V and between P and $1/V$ 18 Viva voce 4 Surface Tension 4 To determine the surface tension of water by capillary rise method Viva voce 5 Viscosity 5 To determine the coefficient of viscosity of given liquid by measuring the terminal velocity of a given spherical body in it Viva voce 6 Newton's Law of Cooling 6 To study the relationship between temperature of a hot body and time by plotting a cooling curve Viva voce 7 Vibrations of Strings 7 To study the relation between frequency and length for a given wire under constant tension using a sonometer Viva voce 8 To study the relation between the length of a given wire and tension for constant frequency using sonometer Viva voce 8 Vibrations of Air Columns 9 To find the velocity of sound in air at room temperature using a resonance tube by two resonance position Viva voce 9 Specific Heat 10 To determine specific heat of a given solid by the method of mixture 11 To determine the specific heat of a given liquid by method of mixture Viva voce SECTION A ACTIVITIES 1 To make a paper scale of given least count e.g. 0.2 cm 0.5 cm and use it to measure the length of a given object 2 To determine the mass of a given body using a metre scale and by applying principle of moments Viva voce 3 To plot a graph for a given set of data using proper choice of scales and error bars Viva voce 4 To measure the force of limiting friction for rolling of a roller on horizontal plane Viva voce 5 To study the variation in the range of a jet of water with angle of projection Viva voce 6 To study the conservation of energy of a ball rolling down on inclined plane using a double inclined plane Viva voce 7 To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time Viva voce SECTION B ACTIVITIES 1 To observe the change of the state and plot a cooling curve for molten wax Viva voce 2 To observe and explain the effect of heating on a bimetallic strip Viva voce 3 To note the change in level of liquid in a container on heating and interpret the observations Viva voce 4 To study the effect of detergent in surface tension by observing capillary rise Viva voce 5 To study the factors affecting the rate of loss of heat of a liquid Viva voce 6 To study the effect of load on depression of a suitably clamped meter scale loaded i at its end ii in the middle Viva voce 7 To observe the decrease in pressure with the increase in velocity of the fluid Viva voce APPENDIX Some Important Tables of Physical Constants Log Antilog and other Tables

based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel, Er. Meera Goyal, 2020-06-24

SECTION A EXPERIMENTS 1 To determine resistance per cm of a given wire by plotting a graph for potential difference versus current 2 To find resistance of a given wire using meter bridge and hence determine the specific resistance Resistivity of its material 3 To verify the laws of combination Series Parallel of resistance using ammeter bridge 4 To compare the e.m.f. of two given primary cells using potentiometer 5 To determine the internal resistance of a given primary cell e.g. Leclanche cell using potentiometer 6 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit 7 A To convert a given galvanometer of known resistance and figure of merit into an ammeter of desired range and to verify the same 7 B To convert a given galvanometer of known resistance and figure of merit into a voltmeter of desired range and to verify the same 8 To find the frequency of AC mains with a sonometer and horse shoe magnet SECTION B EXPERIMENTS 1 To find the value of v for different values of u in case of a concave mirror and to find the focal length 2 To find the focal length of a convex lens by plotting graph between u and v or $1/u$ and $1/v$ 3 To find the focal length of a convex mirror using a convex lens 4 To find the focal length of a concave lens using a convex lens 5 To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find the refractive index of a liquid by using a convex lens and a plane mirror 8 To draw I-V characteristics curve of a p-n junction in forward bias and reverse bias 9 To draw the characteristics curve of a Zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter n-p-n or p-n-p transistor and to find out the values of current and voltage gains SECTION A ACTIVITIES 1 To measure the resistance and impedance of an inductor with or without iron core 2 To measure resistance voltage AC DC current AC and check continuity of given circuit using multimeter 3 To assemble a household circuit comprising of three bulbs three on/off switches a fuse and a power source 4 To assemble the components of a given electrical circuit 5 To study the variation in potential drop with length of a wire for a steady current 6 To draw the diagram of a given open circuit comprising at least a battery resistor rheostat key ammeter and voltmeter Make the components that are not connected in proper order and correct the circuit and also the circuit diagram SECTION B ACTIVITIES 1 To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor 2 To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items 3 Use a multimeter to i identify the transistor ii distinguish between n-p-n and p-n-p type transistor iii see the unidirectional flow of current in case of a diode and a LED iv Check whether a given electronic components e.g. diode transistor or IC is in working order 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab 5 To observe polarisation of light using two polaroids 6 To observe diffraction of light due to a thin slit 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using candle and a screen for different distance of the candle from the lens mirror 8 To obtain a lens combination with the specified

focal length by using two lenses from the given set of lenses SUGGESTED INVESTIGATORY PROJECT 1 To Study Various factors on which the Internal Resistance EMF of a cell depends 2 To study the variations in current following in a circuit containing L D R because of variation a In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position b In the Distance of a incandescent lamp of fixed power used to illuminate the L D R 3 To find the refractive indices of a Water b Oil Transparent using a plane mirror an equiconvex lens made from a glass of known refractive index and an adjustable object needle 4 To design an appropriate logic gate combination for a given truth table 5 To investigate the relation between the ratio of i Output and Input voltage ii Number of turns in secondary coils and primary coils of a self designed transformer 6 To Investigate the dependence of angle of deviation on the angle of incidence using a hollow prism filled one by one with different transparent fluids 7 To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of Coulomb's Law 8 To study the factors on which the self inductance of a coil depends by observing the effect of this coil when put in series with a resistor bulb in a circuit fed up by an a c source of adjustable frequency 9 To study the earth's magnetic field using a tangent galvanometer APPENDIX Some Important Tables of Physical Constants Logarithmic and other Tables Science Lab Manual Class X | follows the latest CBSE syllabus and other State Board following the CBSE Curriculum. Mr. Gopi Chandra Gupta, Mr. Shivam

Tiwari, 2022-08-04 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 **Science Lab Manual Class IX | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.** 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 **Oswaal CBSE & NCERT One for All | Class 12 Physics For 2025 Board Exam** Oswaal Editorial Board, 2024-07-06 Description of the Product 100 % Updated as per latest syllabus issued by CBSE Extensive Theory with Concept wise Revision Notes Mind Maps and Mnemonics Visual Learning Aids with theoretical concepts and concept videos NEP Compliance with inclusion of CFPQ Learning Framework questions issued by CBSE Valuable Exam Insights with all NCERT Textbooks questions important NCERT Exemplar questions with solutions Exam Readiness with Previous Years Questions SQP Questions and Board Marking

Scheme Answers On Point Practice with Self Assessment Questions Practice Papers NCERT Biology Practical/Lab Manual/Project Class 12 Dr. Sunita Bhagiya, Megha Bansal, 2024-09-29 EXPERIMENTS 1 To study pollen germination on slide 2 To study plant population density by quadrat method 3 To study plant population frequency by quadrat method 4 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine 5 To study the isolation of DNA from available plant material such as spinach green pea seeds papaya etc SPOTTING 1 Pollination in flowers 2 Pollen germination 3 Slides of mammal tissues 4 Meiosis cell division 5 T S of Blastula 6 Mendel s inheritance laws 7 Pedigree chart 8 Controlled pollination 9 Common disease causing organisms 10 Symbolic Association in root nodules 11 Homologous and analogous organs PROJECTS 1 To study the different means of pollination 2 To study infectious diseases of humans 3 To study birth rate and death rate In your village or town 4 To study genetic disorders 5 To study malaria causes and disorders 6 To study causes symptoms and diagnosis of cancer 7 To study causes symptoms and diagnosis of AIDS 8 To study the applications and importance of Biotechnology 9 At the time of COVID 19 what kind of problems did your acquaintance have to face when he got covid 10 To study DRUG ABUSE 11 Name the medicinal drugs which are banned all over the world 12 Describe the response of biotic factors to abiotic factors in the environment 13 Biodiversity and Conservation Practices in Indian Culture 14 What has been the effect on pollution control after covid 15 To study Management of sewage and waste materials 16 To study the role of micro organisms in human welfare 17 To study about harmful micro organisms VIVA VOCE FOR PRACTICE

Lab Sparks: Amazing Physics - Complete Edition for Classes 6-12: The Ultimate Practical Manual | You Can See, Feel & Explore! | 70+ Experiments from Kitchen Science to Electromagnetism | Aligned with NCERT, CBSE & NEP 2020 KUNDAN KUMAR, 2025-10-13 The Ultimate Science Adventure Awaits Discover the Magic of Physics with Over 70 Hands On Experiments That Will Blow Your Mind Welcome to Lab Sparks Amazing Physics Complete Edition the most comprehensive and student friendly practical manual ever created for young scientists in Classes 6 12 Ages 10 18 Whether you re launching balloon rockets or building your own electric motor this book turns abstract physics concepts into real touchable experiences From kitchen science to electromagnetic wonders every experiment is designed to spark curiosity ignite wonder and make learning unforgettable What s Inside 70 Visual Experiments From fire tornadoes to magnetic levitation Step by Step Instructions with emoji based visuals diagrams Real Life Connections See how physics works in daily life Safety Tips Student Reflections after every activity Aligned with NCERT CBSE Syllabus NEP 2020 Guidelines Perfect for Practical Files Science Fairs Project Work Competitive Exam Prep NEET JEE Graded Difficulty Simple Home Experiments Class 6 8 to Advanced Lab Activities Class 9 12 Imagine Watching a fire tornado dance in a jar Making a rainbow with just a mirror and water Building a homopolar motor that spins using only a battery and magnet Feeling sound waves vibrate through the air Lighting a bulb using just a pencil lead Defying gravity with magnetic levitation This isn t just a lab manual it s a journey from Why to Wow It builds scientific thinking problem solving skills and a lifelong love for the invisible forces that shape our world Perfect For

CBSE State Board Students Class 6 12 NEET JEE Mains Aspirants Science Teachers Homeschooling Parents School Practical Files Science Exhibition Projects Gift for Young Scientists Who Love to Explore By Kundan Kumar PGT Chemistry Creator of Short Sweet Chemistry YouTube and Founder of Short Sweet Services Because Physics Isn't Just Formulas It's Energy in Motion Ready to turn ordinary ingredients into extraordinary adventures Let's get started *Lab Sparks: Amazing Chemistry - Complete Edition for Classes 6-12: The Ultimate Practical Manual | You Can See, Feel & Explore! | 70+ Experiments from Kitchen Science to Barking Dog Reaction | Aligned with NCERT, CBSE & NEP 2020* KUNDAN KUMAR, 2025-07-14 The Ultimate Science Adventure Awaits Discover the Magic of Chemistry with Over 70 Hands On Experiments That Will Blow Your Mind Welcome to Lab Sparks Amazing Chemistry Complete Edition the most comprehensive and student friendly practical manual ever created for young scientists in Classes 6 12 Ages 10 18 Whether you're making balloons inflate without blowing or witnessing the Barking Dog Reaction roar this book turns abstract chemistry concepts into real touchable experiences From kitchen science to dramatic explosions every experiment is designed to spark curiosity ignite wonder and make learning unforgettable What's Inside 70 Visual Experiments From fizzing reactions to glowing liquids Step by Step Instructions with emoji based visuals diagrams Real Life Connections See how chemistry works in daily life Safety Tips Student Reflections after every activity Aligned with NCERT CBSE Syllabus NEP 2020 Guidelines Perfect for Practical Files Science Fairs Project Work Competitive Exam Prep NEET JEE Graded Difficulty Simple Home Experiments Class 6 8 to Advanced Lab Activities Class 9 12 Imagine Balloons that inflate using just vinegar and baking soda Liquids that change color like magic with kitchen indicators Making rainbows with a mirror and water Growing crystals at home Fire tornadoes in a jar safely observed The legendary Barking Dog Reaction that roars with blue flame This isn't just a lab manual it's a journey from Why to Wow It builds scientific thinking problem solving skills and a lifelong love for the invisible forces that shape our world Perfect For CBSE State Board Students Class 6 12 NEET JEE Mains Aspirants Science Teachers Homeschooling Parents School Practical Files Science Exhibition Projects Gift for Young Scientists Who Love to Explore By Kundan Kumar PGT Chemistry Creator of Short Sweet Chemistry YouTube and Founder of Short Sweet Services Because Chemistry Isn't Just Formulas It's Magic in a Bottle Ready to turn ordinary ingredients into extraordinary adventures Let's get started **Lab Sparks: Amazing Physics - Level-2 for Classes 9-12: A Student-Friendly Practical Manual | You Can See, Feel & Explore! | 30+ Visual Experiments Based on NCERT/CBSE & NEP 2020** KUNDAN KUMAR, 2025-10-13 Ignite the Spark of Advanced Physics with Over 35 Electrifying Experiments That Will Blow Your Mind Welcome to Lab Sparks Amazing Physics Level 2 a student friendly practical manual designed for curious minds in Classes 9 12 Ages 14 18 This book transforms complex physics concepts into hands on real world experiments perfect for board practicals NEET JEE preparation and science enthusiasts From building your own electric motor to making sound waves visible from magnetic levitation to harnessing solar energy every experiment is crafted

to make advanced physics engaging safe and unforgettable What's Inside Step by step instructions with emoji based visuals Real life connections see how motors generators and optics work in daily life Advanced Analysis Graphical methods mirror formula Snell's Law and more Safety tips teacher notes for every activity Aligned with NCERT CBSE syllabus and NEP 2020 guidelines Perfect for project files science exhibitions and competitive exam prep Imagine Building a homopolar motor that spins using just a battery magnet and wire Making light bend like magic with a prism and discover rainbows inside Feeling sound vibrate through air in a resonance tube Defying gravity with magnetic levitation Lighting a bulb using just a pencil lead and a 9V battery This book is more than a lab manual it's a launchpad for future engineers scientists and innovators It builds critical thinking problem solving skills and a deep love for the invisible forces that shape our world Perfect For CBSE State Board Students Class 9 12 NEET JEE Mains Aspirants Science Teachers Coaching Centers School Practical Files Science Fair Projects Gift for Young Scientists Who Love to Explore By Kundan Kumar PGT Chemistry Creator of Short Sweet Chemistry YouTube and Founder of Short Sweet Services Because Physics Isn't Just Formulas It's Energy in Motion Ready to turn ordinary ingredients into extraordinary adventures Let's get started **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 $\text{Al}(\text{OH})_3$ 5 To prepare colloidal solution of ferric hydroxide $\text{Fe}(\text{OH})_3$ 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 $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ 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 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

Practical/Laboratory Manual Chemistry Class - XI Er. Meera Goyal, 2021-05-29 1 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 Viva Voce 2 Characterisation and Purification of Chemical Substances 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique Viva Voce 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method Viva Voce 3 To prepare crystals of pure potash alum $\text{K}_2\text{SO}_4 \cdot \text{Al}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$ 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 Viva Voce 3 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^+ Viva Voce 4 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 $\text{Co H}_2\text{O}$ and Cl^- ions by changing the concentrations of either of the ions

Viva Voce 5 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

Viva Voce 6 Qualitative Analysis

Analysis of Anions

Analysis of Cations

Viva Voce 7 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

Viva Voce INVESTIGATORY PROJECTS

- 1 Checking of Bacterial Contamination in Water
 - 1 To check the bacterial contamination in drinking water by testing sulphide ions
- 2 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
- 3 Water Analysis
 - 1 To test the hardness of different water samples
- 4 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
- 5 Tea Analysis
 - 1 To study the acidity of different samples of tea leaves tea by using pH paper
- 6 Analysis of Fruits and Vegetable Juices
 - 1 To analysis the fruit and vegetable juices for the constituent present in them
- 7 Rate of Evaporation
 - 1 To study the rate of evaporation of different liquids
- 8 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

Viva Voce 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
 - a Blue
 - b Red
 - c Zinc metal
- 10 To perform and observe the following reactions and to classify them into a
 - 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 **Lab Sparks:**

Amazing Physics - Level-1 for Classes 6-8: A Student-Friendly Practical Manual | You Can See, Feel & Explore! | 35+ Visual Experiments Based on NCERT/CBSE & NEP 2020 KUNDAN KUMAR,2025-10-13 Discover the Magic of Physics with Over 35 Fun Safe Experiments That Will Blow Your Mind Welcome to Lab Sparks Amazing Physics Level 1 a student friendly practical manual designed for curious minds in Classes 6 8 Ages 10 14 This book brings physics to life through fun safe and visually engaging experiments that you can do at home or in school From spinning gyroscopes to balloon powered cars from bending light with water to watching sound waves vibrate every experiment is crafted to make science an experience not just a subject What's Inside Step by step instructions with emoji based visuals Real life connections see how physics works in everyday life Student reflections fun facts after each experiment Safety tips for every activity Aligned with NCERT CBSE syllabus and NEP 2020 guidelines Perfect for project files science fairs and classroom learning Imagine Watching a fire tornado dance in a jar Making a rainbow with just a mirror and water Building a hovercraft from a CD and balloon Feeling sound waves with your own hands Spinning motors using just magnets and wires This book is more than a lab manual it's a spark that ignites curiosity builds scientific thinking and turns every young learner into a real life physicist Perfect For CBSE State Board Students Class 6 8 Science Teachers Homeschooling Parents School Practical Files Science Exhibition Projects Gift for Young Scientists Who Love to Explore By Kundan Kumar PGT Chemistry Creator of Short Sweet Chemistry YouTube and Founder of Short Sweet Services Because Physics Isn't Just Formulas It's Energy in Motion Ready to turn ordinary ingredients into extraordinary adventures Let's get started **Practical/Laboratory Manual**

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 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
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 Dr. Sunita Bhagia , Megha Bansal, 2020-06-22 A List of Experiments 1 Study pollen germination on a slide 2 Collect and study soil from at least two different sites and study them for texture moisture content pH and water holding capacity Correlate with the kinds of plants found in them 3 Collect water from two different water bodies around you and study them

for pH clarity and presence of any living organism 4 Study the presence of suspended particulate matter in air at two widely different sites 5 Study the plant population density by quadrat method 6 Study the plant population frequency by quadrat method 7 Prepare a temporary mount of onion root tip to study mitosis 8 Study the effect of different temperatures and three different pH on the activity of salivary amylase on starch 9 Isolate DNA from available plant material such as spinach green pea seeds papaya etc

B Study observation of the following Spotting 1 Flowers adapted to pollination by different agencies wind insects birds 2 Pollen germination on stigma through a permanent slide 3 Identification of stages of gamete development i.e. T.S. of testis and T.S. of ovary through permanent slides from grasshopper mice 4 Meiosis in onion bud cell or grasshopper testis through permanent slides 5 T.S. of blastula through permanent slides Mammalian 6 Mendelian inheritance using seeds of different colour sizes of any plant 7 Prepare pedigree charts of any one of the genetic traits such as rolling of tongue blood groups ear lobes widow's peak and colour blindness 8 Controlled pollination emasculation tagging and bagging 9 Common disease causing organisms like Ascaris Entamoeba Plasmodium any fungus causing ringworm through permanent slides or specimens Comment on symptoms of diseases that they cause 10 Two plants and two animals model virtual images found in xeric conditions Comment upon their morphological adaptations 11 Two plants and two animals models virtual images found in aquatic conditions Comment

Content EXPERIMENTS 1 To study pollen germination on slide 2 To study the texture moisture content pH and water holding Capacity of soils collected from different sites 3 To collect water from different water bodies and study them for pH Clarity and presence of living organisms 4 To study the presence of suspended particulate matter in air at different sites 5 To study plant population density by quadrat method 6 To study plant population frequency by quadrat method 7 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine 8 To study effect of different temperature and three different pH on the activity of salivary amylase 9 To study the isolation of DNA from available plant material such as spinach green pea seeds papaya etc

SPOTTING 1 Pollination in flowers 2 Pollen germination 3 Slides of mammal tissues 4 Meiosis cell division 5 T.S. of Blastula 6 Mendel's inheritance laws 7 Pedigree chart 8 Controlled pollination 9 Common disease causing organisms 10 Xerophytic adaptation 11 Aquatic adaptation

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Meera Goyal, 2022-02-25 An Excellent Book in Accordance with the latest syllabus for class XII Prescribed by CBSE NCERT and Adopted by Various State Education Boards

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 $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ 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 Zn Zn^{2+} Cu Cu^{2+} 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 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 cardomom 8 To detect the presence of adulteration in fat oil and butter 9 To investigate the presence of NO₂ in brinjal *Oswaal CBSE & NCERT One for All Class 12 Physics (For 2024 Exam)* Oswaal Editorial Board,2023-07-19 Description of the product Strictly as per the latest CBSE Syllabus dated March 31 2023 Cir No Acad 39 2023 Acad45 2023 100 % Updated for 2023 24 with Latest Rationalized NCERT Textbooks Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year s Questions Board Marking Scheme Answers Valuable Exam Insights with 3000 NCERT Exemplar Questions Extensive Practice with Unit Wise Self Assessment Questions Practice Papers NEP Compliance with Competency based questions Oswaal CBSE Question Bank Class 11 Physics, Chapterwise and Topicwise Solved Papers For 2025 Exams Oswaal Editorial Board,2024-02-03 Description of the product 100% Updated Syllabus Question Typologies We have got you covered with the latest and 100% updated curriculum along with the latest typologies of Questions Timed Revision with Topic wise Revision Notes Smart Mind Maps Study smart not hard Extensive Practice with 1000 Questions SAS Questions Sri Aurobindo Society To give you 1000 chances to become a champ Concept Clarity with 500 Concepts Concept Videos For you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Competency Based Questions Artificial Intelligence For you to be on the cutting edge of the coolest educational trends

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