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to be performed for Summative Assessment -I during practical exams. The list of experiments include the practicals from Biology, Physics and Chemistry and truly based NCERT Lab books. Click on the list to get the details of the experiments for lab manual works.

Class 9 Science Lab Manual Work SA-I
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CBSE Class 9 Science Practicals – Syllabus, Lab Manual and Kit CBSE has provided the official syllabus for class 9 Science practicals. Board has allocated 30 periods for conducting all the practicals. Here we have provided a list of Science experiments that students need to perform in the laboratory.

CBSE Class 9 Science Practicals - Get

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Syllabus, Lab Manual...

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Experiments PHYSICS Sound Density
of Solid Archimedes ' Principle
Pressure Velocity of a Pulse in Slinky
Relationship Between Weight of a
Body and Force Required to Just
Move it CHEMISTRY Solution,
Colloids, Suspension Mixture and
Compound Types of Reactions and
Changes Separation of Mixture
Melting Point of Ice and Boiling [...]

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To carry out the following reactions
and classify them as physical or
chemical changes. a. Iron with copper
sulphate solution in water. b. Burning
of magnesium in air. c. Zinc with
dilute sulphuric acid d. Heating of
copper sulphate e. Sodium

Chemical Reactions (Theory) : Class 9 :
Chemistry - Online Lab
NCERT Exemplar Problems for Class 9

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CBSE Practicals for Class 9 Science Lab Manual Work SA-II. List of Experiments to be performed for Summative Assessment -II during practical exams. The list of experiments include the practicals from Biology, Physics and Chemistry and truly based NCERT Lab books. Click on the list to get the details of the experiments for lab manual works.

Class 9 Science Lab Manual Work SA-II
NCERT
Activities for Class IX (1 to 10)

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Manual Class IX (11 to 20)

Activities for Class IX (21 to 34)

9

(1 to 10)

9

(11 to 20)

9

(21 to 34)

Laboratory Manuals - NCERT
Chemistry. Class 12. Determination of
EMF of a Cell. ... Basic Laboratory
Techniques. Qualitative Analysis of
Anions. Qualitative Analysis of
Cations. Class 10. ... Class 9.
Separation of Mixtures Using
Different Techniques. Chemical-
Reactions. Distinguish Between
Mixture and Compound.

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Practical experiments lead to a much deeper understanding of a concept through the act of doing and personal experience. It is found to be more useful in our actual day-to-day work. ... Click the links to get the practical exam experiments for Class 9 and 10 Physics, Chemistry and Biology. ICSE Class 9 Experiments: ICSE Class 9 Physics ...

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And 10

Question 9: The number of atoms of each combining element in a chemical reaction of reactant is
Answer: Equal to the number of atoms of each combining element at the product side. Question 10: Define ion. Answer: The charged atom (due to loss/gain of electrons) is called ion.
PRACTICAL BASED QUESTIONS.

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Law of Conservation of ...
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Practical Based Questions In CBSE
Class 9 Annual Examination 2020,
Science question papers may have a
few question based on practical skills.
Such questions are...

CBSE Class 9 Science Important
Practical Based Questions ...
CBSE Class 9 Science Practical Skills –
Types of Reactions and Changes.
EXPERIMENT. AIM To carry out the
following reactions and classify them
as physical or chemical changes. Iron
with copper sulphate solution in
water; Burning of magnesium in air;
Zinc with dilute sulphuric acid;
Heating of copper sulphate

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CBSE Class 9 Science Practical Skills –
Types of Reactions ...

Chemistry Practical Class 12 - List of
Chemistry practical experiment for
class 12th examination is provided
here. Also, get the list of suggested
practicals.

Chemistry Practical Class 12 Board
Examination 2020-21

To carry out the following reactions
and classify them as physical or
chemical changes. a. Iron with copper
sulphate solution in water. b. Burning
of magnesium in air. c. Zinc with
dilute sulphuric acid d. Heating of
copper sulphate e. Sodium

Chemical Reactions (Simulator) : Class
9 : Chemistry ...

NCERT Class 9 Science Lab Manual –

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Archimedes ' Principle EXPERIMENT

Aim To establish the relation between the loss in weight of a solid when fully immersed in tap water strongly salty water, with the weight of water displaced by it by taking at least two different solids. Theory Fluids: Gases and liquids flow and are [...]

NCERT Class 9 Science Lab Manual - Archimedes ' Principle ...

To prepare a) a mixture b) a compound using iron filings and sulphur powder and distinguish between these on the basis of: i. appearance i.e., homogeneity and heterogeneity ii. behaviour towards a magnet iii. behaviour towards carbon disulphide a

Distinguish Between Mixture and Compound (Theory) : Class ...

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The following are the experiments simulated in Class 11 Chemistry Practicals App for class 11 chemistry and are referred from the latest NCERT laboratory manual. To study the basic laboratory equipment. Determination of the melting point of an organic compound. Determination of the boiling point of an organic compound.

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

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Manual Class 9
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

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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) $\text{Al}_2(\text{SO}_4)_3$ (aq.). Based on the above result to arrange Zn, Fe, Cu and Al (metals) in the decreasing order 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

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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.)

- It is strictly according to the latest CBSE guidelines
- It contains all NCERT Lab Manual Questions, fully solved
- It contains more than sufficient viva voce questions for practice
- It also includes brief description of

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Manual/Class File/ha
each activity/experiment, which will help students in practicing and completing their lab work.

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 $[K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O]$ from the given impure sample
4. To prepare

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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 (CH₃COOH) 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 (CH₃COO⁻ ion) in case of weak acid (CH₃COOH)
 - 5.To determine the change in pH value of weak base (NH₄OH) in presence of a common ion (NH₄⁺)
- Viva-Voce 4.Chemical Equilibrium 1

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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 $[\text{Co}(\text{H}_2\text{O})_6]^{2+}$ 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

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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 Viva-Voce 2. Methods of Water

Purification 1. To purify water from

suspended impurities by using

sedimentation 2. To purify water by

boiling 3. o 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

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bleach treatment 7. To purify water by oxidising agent 8. To purify water by ozone treatment method Viva-Voce 3. Water Analysis 1. To test the hardness of different water samples Viva-Voce 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 Viva-Voce 5. Tea Analysis 1. To study the acidity of different samples of tea leaves (tea) by using pH paper Viva-Voce 6. Analysis of Fruits and Vegetable Juices 1. To analysis the fruit and vegetable juices for the constituent present in them Viva-Voce 7. Rate of Evaporation 1. To study the rate of evaporation of different liquids IViva-Voce 8. Effect of Acids and Bases on Tensile Strength

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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

ICSE-Lab Manual Chemistry-TB-09

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,

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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 dis solution 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.

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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.

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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 b-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

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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.

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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 NO_2^- in brinjal.

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