

BHAVAN'S BHAGWANDAS PUROHIT VIDYA MANDIR, NAGPUR

CURRICULUM PL (2023-24)

SUBJECT: CHEMISTRY

Smt. Nirupama Padmaraj Principal

Bhavan's B. P. Vidya Mandir, Srikrishna Nagar, Nagpur

Bhavan's B. P. Vidya

Mandir,

Principal

Civil lines, Nagpur

Smt. Anju Bhutani

Smt. Vandana Bisen

Bhavan's B. P. Vidya Mandir, Ashti, Nagpur

Principal

Bhavan's B. P. Vidya Mandir,

Trimurti Nagar, Nagpur

Smt. Parwati G. Iyer Principal

Ms. Sarbani Bose

Bhavan's B. P. Vidya Mandir, Koradi, Nagpur Principal

Ms. Kirth Mishra

Principal

Bhavan's Lloyds Vidya Niketan, Wardha

Bhavan's NTPC Vidya Mandir, Mouda

Ms. Janaki Mani

Principal

Smt. Annapoorni Shastri

Bharatiya Vidya Bhavan Nagpur Kendra. Director N. O. X

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BHAVAN'S B.P. VIDYA MANDIR, NAGPUR REVISED CURRICULUM PLAN

2023-2024 <u>SUBJECT :- CHEMISTRY</u> <u>STD :- X</u>

| | | | | April | MONTH |
|----------------|------------------|----------------------|---------------------------|--|--|
| | | | 5-8 | 1st week | WEEKLY DATES |
| | | | | _ | NO. OF PERI |
| | _ | and Equations | reactions | 1. Chemical | NAME OF THE CHAPTERS |
| | | | | 1.1Chemical equations | TOPICS |
| ¥ | | | | | NO.OF PERIODS REQUIRED |
| | | | ribbon. | Burningof Magnesium | ACTIVITIES/SMART CLASS MODULES |
| | | activities. | and conclusion for intext | Burningof Magnesium Writing observation,result | ASSIGNMENTS/ EVALUATION |
| Classification | SKILLS ASSESSED: | physical / Chemical. | Classify changes as | Students will be able to- | LEARNING OUTCOME/SDG / SKILLS ASSESSED |

| | | | | | April | : | | | | | | | | | 7 | > 2. | | | | April |
|--|-----------------------|------------------|---------------------|------------------|-----------------------|---------------------------|--------------|--------------------|---------------------|-------------------|----------------------|-----------------------|----------------------------|---------------------------|-----------------------|--------------------|------------------|------------|---------------------|---|
| | | | | 24-29 | 4th week | | | | | | | | | 17-21 | ordweek | 35 | | | 10-15 | 2"Week |
| | | | | | ω —— | | | | | | | | | | |) | | | | CL. |
| 1.2.4 Doi | 1.2.3D | | | reaction | 1.2 | | | W) | | reaction | | | | reactions | 1.2 ly | O | | | equations | 1.1.2 |
| 1.2.4 Double Displacement | 1.2.3Displacement | | | ň | 1.2.2 Decomposition . | | | | | on . | 1.2.2 Decomposition | reaction | 1.2.1 Combination | ons | 1.2 Types of chemical | | | | ons | 1.1.2 Balancing of chemical |
| _ | _ | | | - | \ | | | | | - | • | 10 | _ | X | | | | | | ω |
| activity is performed on Types of chemical | Experiment 1: A Lab | iodide | nitrate with lead | Reaction of lead | CuSO4 | Reaction of Fe and | photography. | andwhite | 3.Reaction of black | sulphate crystals | 2.Heating of ferrous | nitrate. | 1.Heating of lead | LEARNING: | EXPERIENTIAL | | | | acid on zinc | Action of dil. sulphuric |
| | | | | | | | | | | | | | homework. | discussed & given as | Intext questions are | | | | given for balancing | Action of dil. sulphuric Chemical equations are |
| 9 | Observational Skills, | SKILLS ASSESSED: | chemical reactions. | changes during | Perform and observe | Students will be able to- | | 1.Logical Thinking | SKILLS ASSESSED: | | reactions. | the types of chemical | Identify and differentiate | Students will be able to- | Scientific Approach | Critical Thinking, | SKILLS ASSESSED: | equations. | Balance chemical | |

TLIABUS SPLIT UP 2023-24 CLASS X CHEMISTRY

| June | × . | June | | MAY | |
|----------------------|--|---|-----------------------------------|--------------------------------|------------|
| 5th week 26-30 | | 4 th week 20-24 | 2-4 | 1 st week | |
| 2 | | N | | | |
| Que | | 1.3 | | | |
| Question and answers | | 1.3.1 Corrosion 1.3.2 Rancidity | | 1.2.5 Oxidation and Reduction. | |
| 2 | | | | _ | |
| | Effects of Corrosion and Rancidity. | HEALTH AND FITNESS: | | ICT: Oxidation & Reduction | reactions. |
| | | Chapter based worksheet will be given for practice. | | | |
| | and its effects in day to day life. SKILLS ASSESSED: Inquisitive Approach | Students will be able to- understand rancidity | concepts of oxidation, reduction. | Students will be able to- | |

| | | | | | | | July | | | | | July | | | | | | | D D | | | | July |
|--------|------------------------|-------------------------|------------------------|----------------------|-------------------------|---------------------------------|-------------------------|---------------------------|-------------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------------|------------------|-------------|--------------|--------------------------|-------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| | | | | | 1/-22 | 1 000 | 4 th week | | | | 10-15 | 3 ^{ra} week | | | | | | | | | 1 and 3-7 | 2nd week | 1 st and |
| | | | | | | (| ω | | | | | ω | | | | | | | | | | | ω |
| | | | | | | | | II | | | | | | | | | | | | | | Non-metals | 3. Metals & |
| | | 3.2.5 Reactivity series | reactions. | metals- displacement | with solutions of other | C.E. T. LOW GO III CIGIO I CACL | 324 How do metals react | metals react with acids? | 3.2.3 What happens when | | metals react with water? | 3.2.2 What happens when | | | | | | metals are burnt in air? | 3.2.1 What happens when | metals. | 3.2 Chemical properties of | metals and non-metals. | 3.1 Physical properties of |
| | | | | | | ٢ | S | | | | | 2 | | | | | | | | | _ | | _ |
| metals | Relative reactivity of | of metal | ICT: Reactivity series | on displacement | activity is performed | LARNING: A Lab | EXPERIENTIAL | | with acid and water | Reaction of metals | LEARNING: | EXPERIENTIAL | | | | \$C | | Burning of metals. | in the class. | will be demonstrated | properties of metals | LEARNING : Physical | EXPERIENTIAL |
| | | | | | | * | | | | & tested. | learn equations everyday | Students are made to | | | | | | | | | & tested. | learn equations everyday | Students are made to |
| | | Ininking | Analysing, Critical | SKILLS ASSESSED: | metals by performing | reactivity of various | Identify the order of | Students will be able to- | | Scientifc Temperament | Observational Skills, | SKILLS ASSESSED: | Scientififc Temperament | Observational Skills, | SKILLS ASSESSED: | properties. | and chemical | basis of their physical | between them on the | metals and distinguish | of metals and non | Understand the concept | Students will be able to- |

| will be given for practice |
|--|
| Chapter based worksheet |
| |
| |
| |
| |
| of metals. |
| involved in the metallurgy |
| ICT: Extraction of |
| |
| DATE: 24/07/23 |
| AND EQUATIONS.(6M) |
| CHEMICAL REACTIONS |
| PORTION: CH 1 |
| PERIODIC TEST I |
| ionic compounds |
| ICT: Properties of To enlist properties of |

| | | | | | | August | | | | | | August | | |
|---|----------------------------|-----------------------|----------------------------|------------------------|----------------------|--------------------------|---------------------|------------------|--------------------|---------------------------|---------------------|-------------------------|--------------------------|--------|
| | | | | | | 4 th week | | | | | | 14-19 | 3 rd week | - |
| | | | | | | ω | | | 4 | * | | | 2 | |
| | | | and Salts | Acids,Bases | 2. | | | | | | | | | |
| | 2.1.1 Acids & bases in lab | acids & bases | 2.1 Chemical properties of | | Question And answers | | | | 8 | corrosion. | 3.5.1 Prevention of | 3.5 Corrosion | 3.4.6 Refining of metals | series |
| | | _ | | | 2 | | | | | 9 | | | _ | |
| properties of dil HCI & NaOH . | to study the | Activity is performed | bases. | s for testing acids & | LEARNING:Indicator | EXPERIENTIAL | | corrosion. | Methods to prevent | Chart Making-Various | ACTIVITY: | ASSESSMENT | MULTIPLE | |
| 3.3.1) (7M) DATE: 28/08/23 | METALS(INCLUDING | METALS AND NON- | PORTION: CH 3 | PERIODIC TEST II | learn equations. | Students are made to | | | | | discussed. | Exercise questions are | Intext questions & | |
| 1.Learning by doing.2.Scientific Learning. | SKILLS ASSESSED: | properties. | basis of their chemical | acids and bases on the | Distinguish between | Students will be able to | Psycho-motor skill. | Design Thinking, | SKILLS ASSESSED: | prevention in daily life. | corrosion and its | Corelate the Process of | Students will be able to | |

| | | | | _ | | | | | | | 1 | | | | | | | | | | |
|-----------------------|----------------------|----------------------|-----------------------|-----------------------------|------------------------|---------------------------|----------------------------|------------------------|---------------------------|--------------|---------------|--------------------|------------------------|-----------------------|------------------------------|-----|----------------------|---------------------|------------------------|---------------------|------------------------------|
| | | | | | | | | | Sept | | | | | | Sept | | | | | | Aug |
| | | | | | | | | 4-8 | 2 nd week | | | | | 1 and 2 | 1st week | | | | 31 | 28 and | 5th week |
| | | | | | | | | | 2 | | | | | _ | | 1,0 | | | | | _ |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | metallic oxides with bases. | 2.1.6 Reaction of non- | oxides with acids | 2.1.5 Reaction of metallic | bases with each other. | 2.1.4 Reaction of acids & | | | | bicarbonates | metal carbonates & | 2.1.3 Reaction of acids with | is: | | | | metals | 2.1.2 Reaction of acids with |
| | | | | Š | _ | | | | | | | | | | | | | - | | | |
| | | | | | | | 0 | | | | | | | | | | | _ | | | _ |
| bases is performed. | metallic oxides with | Reaction of non- | oxides with acids and | Reaction of metallic | LEARNING: | EXPERIENTIAL | bases with each other | Reaction of acids & | LEARNING: | EXPERIENTIAL | bicarbonates. | metal carbonates & | Reaction of acids with | LEARNING: | EXPERIENTIAL | × | | metalsis performed. | Reaction of acids with | LEARNING: | EXPERIENTIAL |
| | | | | practice equations. | Students are made to | | | | | | | | | | • | | | | | practice equations. | Students are made to |
| Observational skills, | SKILLS ASSESSED: | observe the changes. | acids and bases and | Chemical reactions of | Perform Various | Students will be able to- | | | | | | | Testing hypothesis. | Observational skills, | SKILLS ASSESSED: | 20 | observe the changes. | acids and bases and | Chemical reactions of | Perform Various | Students will be able to- |

| Oct | Oct | Oct | | Sept | |
|--|--|---|---|--|--------------------|
| 4 th and 5 th week 25-31 | 3rd week 16-21 | 2nd week 12-14 | * | 4th and 5 th week 18-25 | |
| ω | 2 | _ | Ω | <u> </u> | |
| | | | HALF Y | | |
| 2.4.1 Family of Salts2.4.2 pH of salts2.4.3 Chemicals from | 2.3.1 Importance of pH in everyday life.2.4 More about Salts. | 2.3 How strong are acids & bases. | HALF YEARLY EXAM FROM 26/09/23 to 11/10/23 Ch:1Chemical reactions and equations (12M)Ch:3 Metals and non metals | REVISION FOR HALF YEARLY | |
| | | _ | 26/09/23 t | | |
| | EXPERENTIAL LEARNING: To find the pH of materials used in daily life and classify. | | 09/23 to 11/10/23 Metals and non metals (13M) | 7% | |
| | Intext questions & Exercise questions are discussed. | | | | |
| Understand the methods of preparation and uses of various | of various samples. SKILLS ASSESSED: Testing hypothesis | Understand the concept of pH and will perform | Students will be able to- | 6. | Testing hypothesis |

| 2 4. CARBON AND ITS Covalent bond COMPOUND 4.2 Versatile nature of S S 4.2.1 Saturated & Individents & Individents are asked to Particulation of S-D Understand Bonding in compounds. 1 4.2.2 Chains, branches & Indigent in carbon compounds. 3 4.2.3 Will you be my friend 4.2.5 Nomenclature of carbon compounds. 4.2.5 Nomenclature of indigent functional properties and S.3.1 Combustion 4.3.2 Chemical Properties and S.3.1 Combustion in compounds. 5 EXPERENTIAL Extra questions are given Students will be able to-compounds. Skill s assessed. Critical thinking. Cognitive Learning. Skill s assessed. Critical thinking. Cognitive Learning. Skill s assessed. Cognitive Learning. Students will be able to-porties and sked to portion. CH 2 ACIDs. Name carbon compounds. Satisfied in the homologous series and of different functional portion. CH 2 ACIDs. Name carbon compounds. Skill s assessed. Cognitive Learning. Cognitive Learning. Students will be able to-portion. CH 2 ACIDs. Name carbon compounds. Skill s assessed. Cognitive Learning. Skill s assessed. Co | | | | | | | | | TI LEVIS CELL TO THE COLUMN TO |
|--|---------------------------|---------------------------|-------------------------|---|-----------------------------|-----------|---|----------|--|
| 4. CARBON AND ITS Covalent bond COMPOUND Compound S 4.2 Versatile nature of carbon Carbon 4.2.1 Saturated & unsaturated compounds. 4.2.2 Chains, branches & fings ings 4.2.3 Will you be my friend 4.2.4 Homologous series 4.2.5 Nomenclature of carbon compounds. 4.3.1 Combustion 4.4.2 Parent functional carbon of 3.D on nomenclature. Students are asked to periodic thicking, compounds according groups. Extra questions are given Students are questions are question on nomenclature. Students will be able able to periodic test iii Extra questions are questions are questions are questions are questions are question on nomenclature. Students will be able to periodic test iii Extra questions are given Students are question on nomenclature. Students will be able to periodic test iii Extra questions are given Students are question on nomenclature. Students will be able to periodic test iii Extra questions are questions are question on nomenclature. Students will be able to periodic test iii Extra questions are question on nomenclature. Students will be able to periodic test iii Extra questions are question on nomenclature. Students will be able to periodic test iii Extra question of 3.D on nomenclature. Students will be able to periodic test iii Extra question of an indicature. Students will be able to periodic test iii Extra question of an indicature. Students will be able to periodic test iii Extra question of an indicature. Students will be able to periodic test iii Extra question of an indicature. Students will be able to periodic test iii Extra question of an indicature. Students are question on nomenclature. Students will be able to periodic test iii Extra question of an indicature. Students are question on nomenclature. Students | | | LEARNING: | | 4.3.2 oxidation | | | | |
| 4. CARBON AND ITS Covalent bond COMPOUND AND ITS Covalent bond Compound A.2 Versatile nature of carbon A.2.1 Saturated & unsaturated compounds Frings 4.2.2 Chains, branches & A.2.3 Will you be my friend A.2.5 Nomenclature of carbon compounds. 4.2.5 Nomenclature of carbon compounds. 4.2.5 Nomenclature of carbon compounds. 4.3.6 Chemical Properties 4.1 Covalent bond Compounds. 5 Extra questions are given models of carbon on nomenclature. Compounds. 6 Extra questions are given models of carbon on nomenclature. Compounds. 8 Extra questions are given models of carbon on nomenclature. Compounds. 9 Skill S ASSESSE Critical thinking, Cognitive Learning. Cognitive Learning. Cognitive Learning. Cognitive Learning. Compounds according to liPAC System. 1 Students are asked to periodic TEST III A.2.5 Nomenclature of carbon compounds. 1 Students will be able able to periodic carbon compounds according to liPAC System. | | | EXPERENTIAL | | 4.3.1 Combustion | | | | |
| 4. CARBON 4.1 Bonding in carbon- COMPOUND COMPOUND 4.2 Versatile nature of 1 Demonstration of 3-D on nomenclature. S Carbon Carbon 4.2.1 Saturated & Understand Bondir carbon Lunsaturated compounds L2.2 Chains, branches & Inings 4.2.3 Will you be my friend L2.5 Nomenclature of Carbon Compounds. 4.2.5 Nomenclature of Carbon Compounds. Lack Chains, branches & Carbon compounds Lack Chains, branches & C | to IUPAC System. | | | _ | 4.3 Chemical Properties | | | | |
| 4. CARBON AND ITS Covalent bond COMPOUND Covalent bond A.2 Versatile nature of arbon S 4.2.1 Saturated & unsaturated compouds 4.2.2 Chains, branches & unings 4.2.3 Will you be my friend 4.2.4 Homologous series 4.2.5 Nomenclature of 1 Students are asked to PERIODIC TEST III 4.2.5 Nomenclature of 1 Students are asked to PERIODIC TEST III 4.2.5 Nomenclature of 1 Students are asked to PERIODIC TEST III 4.2.5 Nomenclature of 1 Students are asked to PERIODIC TEST III 4.2.5 Nomenclature of 1 Students are asked to PERIODIC TEST III 4.2.5 Nomenclature of 1 Students are asked to PERIODIC TEST III 4.2.5 Nomenclature of 1 Students are asked to PERIODIC TEST III 4.2.5 Nomenclature of 1 Students are asked to PERIODIC TEST III 4.2.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.2.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.3.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.4.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST III A.5.5 Nomenclature of 1 Students are asked to PERIODIC TEST I | compounds according | DATE: 4/12/23 | groups. | | carbon compounds. | | | | |
| 4. CARBON AND ITS Covalent bond COMPOUND COMPOUND A.2 Versatile nature of carbon Carbon A.2.1 Saturated & unsaturated compounds A.2.2 Chains, branches & rings A.2.3 Will you be my friend A.2.4 Homologous series A.2.4 Homologous series A.2.4 Homologous series Extra questions are given Demonstration of 3-D on nomenclature. Demonstration of 3-D on nomenclature. Demonstration of 3-D on nomenclature. Understand Bondir carbon compounds A.2.1 Saturated & Understand Bondir carbon compounds 4.2.2 Chains, branches & 1 4.2.3 Will you be my friend A.2.4 Homologous series Extra questions are given Cudents will be ableed to PERIODIC TEST III Students are asked to PERIODIC TEST III Students will be ableed to PERIODIC TEST III | Name carbon | BASES AND SALTS. | of different functional | _ | 4.2.5 Nomenclature of | | | 1-8 | |
| 4. CARBON AND ITS Covalent bond COMPOUND Carbon S Covalent bond Carbon S Covalent bond Carbon Compounds. Extra questions are given Demonstration of 3-D on nomenclature. Understand Bondir Carbon car | Students will be able to- | PORTION: CH 2 ACIDS, | enlist the homologous | | 4.2.4 Homologous series | | | 2"d week | |
| 4. CARBON AND ITS Covalent bond COMPOUND Compound S Compound A.2 Versatile nature of arbon Carbon Carbon Compounds. A.2.1 Saturated & unsaturated ompounds A.2.2 Chains, branches & rings Compound Comp | • | PERIODIC TEST III | Students are asked to | _ | 4.2.3 Will you be my friend | | ω | 1st and | Dec |
| 4. CARBON AND ITS Covalent bond COMPOUND COMPOUND Carbon S Covalent bond A.2 Versatile nature of Students will be ab carbon carbon S Compounds. Extra questions are given bond momenciature. Understand Bondir carbon compounds. A.2.1 Saturated & Compounds A.2.2 Chains, branches & Inings A.3.2 Chains, branches & Cognitive Learning. | | | 19 | | | | | | 7 |
| 4. CARBON A.1 Bonding in carbon- COMPOUND Covalent bond Compound S Covalent bond Compound A.2 Versatile nature of Students will be ab Carbon Carbon Carbon A.2.1 Saturated & Unsaturated compounds A.2.2 Chains, branches & Lace Chains, branches & Covalent bond Covalent bond Demonstration of 3-D on nomenclature. Compounds Extra questions are given Demonstration of 3-D on nomenclature. Compounds A.2.2 Chains, branches & Compounds Extra questions are given Compounds On nomenclature. Compounds A.2.1 Saturated & Carbon compounds SKILLS ASSESSE Critical thinking, | Cognitive Learning. | | | | rings | | | | |
| 4. CARBON AND ITS Covalent bond COMPOUND S Covalent bond Compound A.2 Versatile nature of S Carbon C | Critical thinking, | | | | 4.2.2 Chains, branches & | | | | |
| 4. CARBON 4.1 Bonding in carbon- 1 TOY BASED: Extra questions are given Students will be ab AND ITS Covalent bond 1 Demonstration of 3-D on nomenclature. Students will be ab COMPOUND 4.2 Versatile nature of sarbon 1 models of carbon compounds. Extra questions are given S Image: compound sarbon compounds Image: compound sarbon compounds Students will be ab A 2.1 Saturated & 4.2.1 Saturated & A 2.1 Saturated & | SKILLS ASSESSED: | | | _ | unsaturated compouds | | | 28-30 | |
| 4. CARBON 4.1 Bonding in carbon- 1 TOY BASED: Extra questions are given AND ITS Covalent bond 1 Demonstration of 3-D models of carbon on nomenclature. Students will be ab understand Bondir carbon compounds. S Carbon 1 Compounds. Extra questions are given Students will be ab understand Bondir carbon compound | 1 | | | | 4.2.1 Saturated & | | _ | 5th week | November |
| 4. CARBON 4.1 Bonding in carbon- 1 TOY BASED: Extra questions are given AND ITS Covalent bond 1 Demonstration of 3-D models of carbon on nomenclature. Students will be ab models of carbon carbon carbon carbon carbon carbon compounds. | | | | | | | | | |
| 4. CARBON 4.1 Bonding in carbon- 1 TOY BASED: Extra questions are given AND ITS Covalent bond Demonstration of 3-D on nomenclature. Students will be ab COMPOUND 4.2 Versatile nature of sarbon 1 models of carbon compounds. Understand Bondir Students will be ab Carbon compound | | | | | | | | | |
| 4. CARBON4.1 Bonding in carbon-1TOY BASED:Extra questions are givenAND ITSCovalent bond1Demonstration of 3-Don nomenclature.Students will be abCOMPOUND4.2 Versatile nature of S1models of carbon compounds.Extra questions are givenUnderstand Bondir | * | | -20 | | a a | * | | | |
| 4. CARBON4.1 Bonding in carbon-1TOY BASED:Extra questions are givenAND ITSCovalent bondDemonstration of 3-Don nomenclature.Students will be abCOMPOUND4.2 Versatile nature of state1models of carbonmodels of carbon | carbon compounds. | | compounds. | | Calbon | C | | 14 | |
| 4. CARBON4.1 Bonding in carbon-1TOY BASED:Extra questions are givenAND ITSCovalent bondDemonstration of 3-Don nomenclature.Students will be ab | Understand Bonding in | | models of carbon | _ | 4.2 Versatile nature of | COMPOUND | | | |
| 4. CARBON 4.1 Bonding in carbon- 1 TOY BASED: | Students will be able to- | on nomenclature. | Demonstration of 3-D | | Covalent bond | AND ITS | | 23-25 | |
| | | Extra questions are given | TOY BASED: | _ | 4.1 Bonding in carbon- | 4. CARBON | 2 | 4th week | November |

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|-----------------------|----------------------------|----------------------------|---|------------------------------|------------------------------|-----------|----------|----------|
| | | | | Questions and Answer | | | | |
| | | water | | | | | | |
| | | soap on hard & soft | _ | 4.5 Soaps and Detergents | | | | |
| Drawing inference. | | LEARNING :Action of | | acid. | | | | |
| Learning by Doing. | | EXPERIENTIAL | _ | 4.4.2 Properties of ethanoic | | | | |
| SKILLS ASSESSED: | | ethanoic acid | | 4.4.1 Properties of ethanol. | | - == == 7 | | |
| | | on properties of | | compounds | 3 | | | |
| | | activity is performed | | 4.4 Some important carbon | | | | |
| , | will be given for practice | LEARNING : A lab | | 4.3.4 Substitution Reactions | | | 11-16 | |
| 9 | Chapter based worksheet | EXPERIENTIAL | _ | 4.3.3 Addition Reactions | 3 | ek 3 | 3rd week | December |
| | | | | | | | | - |
| | | | | | | | | |
| | | | | | | | | |
| Observational skills. | | | | | | | | |
| SKILLS ASSESSED: | | Oxidation of Ethanol. | | | | | | |

PORTION COMPLETION 16/12/23

REVISION 18/12/23 TO 05/01/24

PRELIMINARY EXAMINATION 8/1/24 to 22/1/24

Chemical reactions and equations Acid , Bases And Salts Metals and non metals

Portion: Ch:1 C Ch:2 A Ch:3 N

LLABUS SPLIT UP 2023-24 CLASS X CHEMISTRY

1

Principal Bhavan's B. P. Vidya Smt. Anju Bhutani Civil lines, Nagpur Mandir,

Smt. Nirupama Padmaraj Principal Bhavan's B. P. Vidya Mandir, Srikrishna Nagar, Nagpur

Bhavan's B. P. Vidya Mandir, Ashti, Nagpur Smt. Vandana Bisen
Principal

Bhavan's B. P. Vidya Mandir, Smt. Parwatt Iyer Principal

Trimurti Nagar, Nagpur

Principal Bhavan's B. P. Vidya Mandir, Koradi , Nagpur Ms. Sarbani Bose

Principal Bhavan's NTPC Vidya Mandir Mouda Smt. Janaki Mani

Principal Bhavan's Lloyds Vidya Ms. Kirti Mishra Niketan, Wardha

Smt. Annapoorni Shastri

Bharatiya Vidya BhavanNagpur Kendra. Director

REACTIVITY BASED ON THE ABOVE RESULTS.

B. ARRANGING Zn, Fe, Cu & AI (METALS) IN THE DECREASING ORDER OF

- iv. $Al_2(SO_4)_3$ (AQ.)
 - iii. CuSO₄(AQ.)
 - ii. FeSO4 (AQ.)
 - i. ZnSO4(AQ.)

SOLUTIONS:

 \overline{V} . OBSERVING THE ACTION OF Zn, Fe, Cu & AI METALS ON THE FOLLOWING SALT

- IV. ACTION OF HEAT ON FeSO4 CRYSTAL.
 - III. REACTION BETWEEN Na2SO4& BaCl2.
- II. ACTION OF CuSO₄ SOLUTION ON IRON (FE).
 - I. ACTION OF WATER ON QUICK LIME
 - d) DOUBLE DISPLACEMENT
 - c) DISPLACEMENT
 - P) DECOMBOSILION
 - a) COMBINATION

AND CLASSIFYING THEM INTO:

EXPERIMENT. NO.2 PERFORMING & OBSERVING THE FOLLOWING REACTIONS

- iii. SOLID SODIUM CARBONATE
 - ii. ZINC METAL
- ! LITMUS SOLUTION (BLUE/RED)

BASIS OF THEIR REACTION WITH:

B. STUDYING THE PROPERTIES OF ACIDS AND BASES (HCI AND NaOH) ON THE

- VI. DILUTE HYDROGEN CARBONATE SOLUTION
 - v. WATER
 - iv. LEMON JUICE
 - III. DIL. CH3COOH SOLUTION
 - II. DIL. NaOH SOLUTION
 - ! DIF' HCL SOLUTION

A. TO FIND OUT 'ph' OF FOLLOWING BY USING ph paper /Universal indicator Δ .

LIST OF LABORATORY EXPERIMENTS

SESSION 7073-74

CFY2S: X

SOBJECT: CHEMISTRY

BHAVAN' B.P. VIDYA MANDIR, NAGPUR

EXPERIMENT.NO.4

ZLUDY OF THE FOLLOWING PROPERTIES OF ACETIC ACID (ETHANOIC ACID):

- i. ODOUR
- ii. SOLUBILITY IN WATER
- iii. EFFECT ON LITMUS
- iv. REACTION WITH SODIUM HYDROGEN CARBONATE

EXPERIMENT.NO.5

STUDY OF THE COMPARATIVE CLEANING CAPACITY OF A SAMPLE OF SOAP IN

SOFT AND HARD WATER

BHAVAN'S B.P.VIDYA MANDIR, NAGPUR

CURRICULUM PLAN - SESSION: 2023-24

SUBJECT: CHEMISTRY

| | SCHOOL CHEMIOINI | | | | STD: X |
|--------|--|--------|---|--------------------------------|--|
| SR.NO. | NAME OF THE TEACHER | BRANCH | PHONE. NO | MAIL ID | SIGNATURE |
| | SMT.ASHA ANASANE (COORDINATOR) | CL | 9975017138 | asha78anasane@gmail.com | 0 |
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| 5 | SMT.MANISHA RATHKANTHIWAD | CUNI | 000000000000000000000000000000000000000 | | 18 |
| | NAW THINANTINA WATERWAY | SKN | 9822737056 | ommanisha76@gmail.com | Datura |
| 6. | SMT.VIDYA NANDANWAR | SKN | 7410764216 | vidyanandanwar01@gmail.com | Mana. |
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| 9 | DRMANISHA. D. BORIKAR (COORDINATOR) | ASTHI | 9960043078 | mwahale@gmail.com | Celar Sapraga |
| 10. | SMT.TABASSUM ALI | ASHTI | 8999649368 | tabassumali318@gmail.com | The on |
| 11. | SMT. KAVITA DASHASAHASTRA | TRMN | 9325398918 | d.kavita2005@gmail.com | 7 4 4 |
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SUBJECT ENRICHMENT



Bhavan's B.P. Vidya Mandir, Nagpur

| Subject: SCIENCE (Chemistry) Class: X |
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| Topic: Gulfiect Enrichment |
| Sub-topic: Science Practical [Experiments in Science]. |
| Nature of Task: <u>Individual</u> |
| Task: Post Content |
| Skills Assessed: Obsernation, Analysis, Reasoning, Understanding, |
| Drawing. |
| Learning Objectives: |
| 1) To enable the students understand various concepts |
| in science through handson activities. |
| 2) To make the students aware about the experimental |
| setup required for the process. |
| 3> To make students realize the principle behind every |
| experiment performed. |
| Procedure: |
| 1) Teacher will demonstrate the experiment by making |
| the Experimental Setry. |
| 2) She will ask the students to observe the results |
| and note them in their observation book. |
| 3) Students will perform the Experiments and note |
| down the observation |
| 4) Students will draw diagram. will. |
| 5) Students will draw Inference and note down |
| in practical Record. |
| |



| Assessment Criteria: | 1> Understanding 2> Reasoning 3> Regularity 4> Neatness |
|--|---|
| the proces | ill take rounds and will guide the they face any difficulty in doing |
| Subject Coordinator's: CL: Sonali D. ASHTI: Mamisha KORADI: Samtee (SMT. ANJU BHUTANI) PRINCIPAL BVM, CL (SMT. PARWATI G. INER) PRINCIPAL BVM, TRMN | Brickat His 33 TMN: 2 Mider Agrichalis |





| Subject: Swence (chemistry) Class: X |
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| Topic: Partholio |
| Sub-topic: Notebook, Sample of work done by student |
| Nature of Task: 2ndividual |
| Task: <u>Post content</u> Skills Assessed: <u>Regularity</u> , <u>Punctuality</u> and <u>Neatness</u> |
| Learning Objectives: Students will learn to: |
| 1) Highlight their best work |
| 2) Display their skills and potential in writing. |
| 3> complete their work on regular basis with neatness |
| and punctuality. |
| 4) Determine their learning standard and other |
| requirements for their grades. |
| Procedure: 3tridents will be able asked to: |
| 1) write intent questions, NCERT questions and |
| extra questions in partfolio. |
| 2) They will be asked to draw neat and well |
| |
| Labelled diagram. |
| 3> Regular and timely submission 4> so the correction where ever asked |
| 4) so the correction where ever asked |
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| Assessment Criteria: | Regularity Punctuality Neatness | |
|---|---|----------------|
| Duration of the Task: _ Follow up / Feedback: | quide the students in case or | |
| and labellin | ngs. | |
| Assessment Rubric: | Regularity — 02 Punctuality — 02 Neatness — 01 [05] | |
| Subject Coordinator's: | Name and Signature | |
| CL: Somali Pa | ongre SKN: KASHMI-CHOURII | AR Ilal |
| ASHTI: Mamisha | Borikar Missis 3 TMN: Nichi Agrihoti | John Stockson. |
| KORADI: Samee | ena Afroz offer 12023 CHB: | 0.01 |
| ASS AND BURNESS | MODDO: Son Ms. Sneh | |
| (SMT. ANJU BHUTANI) PRINCIPAL | (SMT. NIRUPAMA PADMARAJ) PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL | AL |
| BVM, CL | BVM, SKN BVM, AS | |
| (SMT. PARWATI G. IYER) PRINCIPAL BVM, TRMN | (Ms.Sarbāni Bose) (Smt. Raji S Principal Princip BVM, Koradi BVM, C | AL |

Multiple Assessment.



Bhavan's B.P. Vidya Mandir, Nagpur

| Subject: Science (chemistry) Class: X |
|--|
| Topic: Ch: 3 Metals and Non-metals |
| Sub-topic: Methods of preventing corrosion. |
| Nature of Task: Cree oup activity. |
| Task: Chart making on methods of preventing cossosion Skills Assessed: Knowledge, Pshycomotor, Creativity, Neatness. |
| Learning Objectives: Students will learn to |
| . Express their thoughts and ideas on |
| methods of preventing cossosion. |
| . Explore various methods of preventing |
| CONS 05PON. |
| · Enhance their creativity, collaborative |
| skills and aesthetic skill. |
| Procedure: (i) Students will gather colourful |
| pictures and injormation on various methods |
| of preventing corrosion - painting, oiling, |
| greasing, galvarising, chrome plating, |
| anodising and alloy making. |
| (ii) Teacher will guide the students to dévide |
| work among team members such as |
| - callection of pictures |
| - gathering injormation |
| - organising injormation and pictures on |
| |
| Chairt · BVMSKN/QSG/CURM/2017/11 /F7 |
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| Assessment Criteria: (i) Kn ceceleage |
|---|
| (ii) Cecaterity |
| (ii) Coccaterity (iii) Neatness |
| civ) Jean work. |
| Duration of the Task: One Week |
| Follow up/Feedback: Jeacher will quide the students in case they are unable to make an informativechart. |
| |
| Assessment Rubric: Li) Knowledge — 02 (ii) Cleativity — 01 (iii) Neatness — 01 |
| (iv) Jean WOSK -01 Total 05 |
| Subject Coordinator's: Name and Signature CL: Sonali Dongu Sun SKN: RASHMI. CHOURIKAR ASHTI: Manisha Boukar Maria TMN: Nidhi Agniholi Ngw Jost Sport |
| KORADI: Sameena Afroz Offinjaor CHB: MOUDA: Son Ms. Sneha R. Hamp'hou (SMT. ANJU BHUTANI) PRINCIPAL BVM, CL MOUDA: Son Ms. Sneha R. Hamp'hou (SMT. VANDANA BISEN) PRINCIPAL BVM, SKN PRINCIPAL BVM, SKN WWW. ASHTI |
| (SMY. PARWATIC, IYER) PRINCIPAL BVM, TRMN (Ms. Sarbani Bose) PRINCIPAL PRINCIPAL BVM, KORADI (SMT. RAJI SRINIVASAN) PRINCIPAL BVM, CHB |