

THE WISDOM GLOBAL SCHOOL

SYLLABUS BIFURCATION

GRADE 11

SUBJECT:- CHEMISTRY

NAME OF BOOKS: GRB PUBLICATION PART-I & II

YEAR 2024-25

NAME OF THE TEACHER:- MR. GUNJIT CHAUHAN

| S.NO | BOOK NAME | MONTH | CHAPTER NUMBER | CHAPTER NAME | SUB-TOPICS | NO. OF DAYS REQUIRED | ACTIVITY | MATERIAL REQUIRED (IF ANY) | ANIMATED VIDEO LINK | CHARTS |
|------|--------------------------|-------|----------------|---------------------------------|---|----------------------|--|----------------------------|---|--------|
| 1 | GRB PUBLICATION - PART I | APRIL | 1 | SOME BASIC CONCEPT OF CHEMISTRY | GENERAL INTRODUCTION: IMPORTANCE AND SCOPE OF CHEMISTRY | 1 | | | https://video.wixstatic.com/video/f29914_648c107fe82a4eae87ad2809ab8026d0/720p/mp4/file.mp4 | |
| 2 | | APRIL | | | NATURE OF MATTER | 1 | | | | YES |
| 3 | | APRIL | | | LAWS OF CHEMICAL COMBINATION | 2 | TO VERIFY THE LAWS OF CHEMICAL COMBINATION. | | https://video.wixstatic.com/video/f29914_79b6c29298414416ad52297ab9ac9f39/720p/mp4/file.mp4 | |
| 4 | | APRIL | | | CONCEPT OF ELEMENTS,ATOMS AND MOLECULES | 2 | | | | |
| 5 | | APRIL | | | MOLE CONCEPT | 2 | PREPARATION OF STANDARD SOLUTION OF OXALIC ACID. | | | YES |
| 6 | | APRIL | | | PERCENTAGE COMPOSITION | 2 | | | | |
| 7 | | APRIL | | | EMPIRICAL AND MOLECULAR FORMULA | 2 | | | | |
| 8 | | APRIL | | | STOICHIOMETRY AND CALCULATIONS BASED ON STOICHIOMETRY. | 3 | | | | |
| 9 | | APRIL | | | TEST | 1 | | | | |
| 10 | GRB PUBLICATION - PART I | MAY | 2 | STRUCTURE OF ATOM | DISCOVERY OF SUBATOMIC PARTICLES | 3 | | | https://video.wixstatic.com/video/f29914_4ab940cb9ad74d78b344ea06b1813a04/720p/mp4/file.mp4 | YES |
| 11 | | MAY | | | ATOMIC NUMBER, ISOTOPES, ISOBARS | 2 | | | | |
| 12 | | MAY | | | THOMSON'S MODEL AND RUTHERFORD'S MODEL | 2 | | | | YES |
| 13 | | MAY | | | BOHR'S MODEL | 2 | | | | YES |
| 14 | | MAY | | | SHELLS AND SUBSHELLS | 2 | | | | |
| 15 | | MAY | | | DUAL NATURE OF MATTER AND LIGHT | 2 | | | | |
| 16 | | MAY | | | DE BROGLIE'S RELATIONSHIP | 1 | | | | |
| 17 | | MAY | | | HEISENBERG UNCERTAINTY PRINCIPLE | 2 | | | https://video.wixstatic.com/video/f29914_ee2a0b40005a402f9c3efcb38d0a8e6b/720p/mp4/file.mp4 | |
| 18 | | MAY | | | QUANTUM NUMBERS | 3 | | | | YES |
| 19 | | MAY | | | SHAPE OF s,p & d ORBITALS | 3 | | | | |

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| 20 | | MAY | | | RULES FOR FILLING ELECTRONS IN ORBITALS | 3 | | | | |
| 21 | | MAY | | | TEST | 1 | | | | |
| 22 | GRB PUBLICATION - PART I | JUNE | 3 | CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES | SIGNIFICANCE OF CLASSIFICATION | 2 | | | https://video.wixstatic.com/video/f29914_8687cb02a38c4bc0af7afd2ee29e5bb6/720p/mp4/file.mp4 | |
| 23 | | JUNE | | | BRIEF HISTORY OF THE DEVELOPMENT OF PERIODIC TABLE | 3 | | | | |
| 24 | | JULY | | | MODERN PERIODIC TABLE | 2 | | | | YES |
| 25 | | JUNE | | | PERIODIC TRENDS IN PROPERTIES OF ELEMENTS | 3 | PERIODIC TABLE BATTLESHIP. | | | |
| 26 | | JUNE | | | NOMENCLATURE OF ELEMENTS WITH ATOMIC NUMBER GREATER THAN 100 | 2 | | | | |
| 27 | | JUNE | | | TEST | 1 | | | | |
| 28 | GRB PUBLICATION - PART I | JULY | 4 | CHEMICAL BONDING AND MOLECULAR STRUCTURE | IONIC BOND AND COVALENT BOND | 2 | | | https://video.wixstatic.com/video/f29914_c1d1350bdc74931991ea35217a93bb5/720p/mp4/file.mp4 | YES |
| 29 | | JULY | | | BOND PARAMETERS | 2 | | | | |
| 30 | | JULY | | | LEWIS STRUCTURES | 2 | | | | |
| 31 | | JULY | | | POLAR CHARACTER OF COVALENT BOND & COVALENT CHARACTER OF IONIC BOND | 3 | | | | |
| 32 | | AUGUST | | | VALENCE BOND THEORY & RESONANCE | 3 | | | | |
| 33 | | AUGUST | | | VSPER THEORY | 4 | MOLECULAR MODEL BUILDING | | https://video.wixstatic.com/video/f29914_1d851ec75b0461395a5ad8463e485fe/720p/mp4/file.mp4 | |
| 34 | | AUGUST | | | HYBRIDISATION | 3 | | | | |
| 35 | | AUGUST | | | MOLECULAR ORBITAL THEORY | 2 | | | | |
| 36 | | AUGUST | | | HYDROGEN BONDING | 2 | | | | |
| 37 | | AUGUST | | | TEST/REVISION | 2 | | | | |
| MID TERM ASSESSMENT | | | | | | | | | | |
| 38 | GRB PUBLICATION - PART I | SEPTEMBER | 5 | CHEMICAL THERMODYNAMICS | CONCEPTS OF SYSTEM AND TYPES OF SYSTEMS AND SURROUNDINGS | 1 | TO DIFFERENTIATE BETWEEN THE DIFFERENT TYPES OF SYSTEM. | | https://video.wixstatic.com/video/f29914_fd154e9aef9b4ce19f89d6f658cb0544/720p/mp4/file.mp4 | |
| 39 | | SEPTEMBER | | | WORK, HEAT, ENERGY, EXTENSIVE AND INTENSIVE PROPERTIES, STATE FUNCTIONS | 2 | | | | |
| 40 | | OCTOBER | | | FIRST LAW OF THERMODYNAMICS | 1 | TO ILLUSTRATE THE FIRST LAW OF THERMODYNAMICS | PLASTIC BALL | | |

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| 41 | | OCTOBER | | | INTERNAL ENERGY AND ENTHALPY | 1 | | | | |
| 42 | | OCTOBER | | | HEAT CAPACITY AND SPECIFIC HEAT | 1 | | | | |
| 43 | | OCTOBER | | | MEASUREMENT OF ΔU AND ΔH | 1 | | | | |
| 44 | | OCTOBER | | | HESS'S LAW OF CONSTANT HEAT SUMMATION | 1 | | | | |
| 45 | | OCTOBER | | | DIFFERENT TYPE OF ENTHALPIES | 2 | | | | |
| 46 | | OCTOBER | | | SECOND LAW OF THERMODYNAMICS | 1 | | | | |
| 47 | | OCTOBER | | | ENTROPY | 1 | | | | |
| 48 | | OCTOBER | | | GIBB'S ENERGY CHANGE FOR SPONTANEOUS AND NON-SPONTANEOUS PROCESSES | 2 | | | | |
| 49 | | OCTOBER | | | TEST | 1 | | | | |
| 50 | GRB PUBLICATION - PART I | NOVEMBER | 7 | REDOX REACTIONS | CONCEPT OF OXIDATION AND REDUCTION | 2 | DEMONSTRATION OF REDOX REACTION | | https://video.wixstatic.com/video/f29914_cf24a1aba6764710b6d87cfc026dc764/720p/mp4/file.mp4 | |
| 51 | | NOVEMBER | | | REDOX REACTIONS | 1 | | | | |
| 52 | | NOVEMBER | | | OXIDATION NUMBER | 2 | | | | |
| 53 | | NOVEMBER | | | BALANCING OF REDOX REACTIONS | 3 | | | | |
| 54 | | NOVEMBER | | | TEST/REVISION | 3 | | | | |
| 55 | GRB PUBLICATION - PART I | NOVEMBER | 6 | EQUILIBRIUM | EQUILIBRIUM IN PHYSICAL AND CHEMICAL PROCESSES | 2 | | | https://video.wixstatic.com/video/f29914_971df84305224adeb8d72036be12902/720p/mp4/file.mp4 | |
| 56 | | NOVEMBER | | | LAW OF MASS ACTION, EQUILIBRIUM CONSTANT | 2 | | | | |
| 57 | | NOVEMBER | | | LE CHATELIER'S PRINCIPLE | 2 | STUDY THE SHIFT IN EQUILIBRIUM BETWEEN FERRIC IONS AND THIOCYANATE IONS BY INCREASING/DECREASING THE CONCENTRATION OF EITHER OF THE IONS. | | | |
| 58 | | DECEMBER | | | IONIC EQUILIBRIUM- IONIZATION OF ACIDS AND BASES | 2 | | | https://video.wixstatic.com/video/f29914_e29d9e9cdf2140619fe1ad1c12437d3f/720p/mp4/file.mp4 | |
| 59 | | DECEMBER | | | STRONG AND WEAK ELECTROLYTES | 2 | | | | |

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| 60 | | DECEMBER | | | DEGREE OF IONIZATION, IONIZATION OF POLY BASIC ACIDS, | 2 | | | | |
| 61 | | DECEMBER | | | CONCEPT OF pH | 2 | COMPARING THE pH OF SOLUTIONS OF STRONG AND WEAK ACIDS OF SAME CONCENTRATION. | | | |
| 62 | | DECEMBER | | | HYDROLYSIS OF SALTS | 2 | | | | |
| 63 | | DECEMBER | | | BUFFER SOLUTION & SOLUBILITY PRODUCT & COMMON ION EFFECT | 2 | | | | |
| 64 | | DECEMBER | | | TEST | 1 | | | | |
| 65 | GRB PUBLICATION - PART II | DECEMBER | 8 | ORGANIC CHEMISTRY - SOME BASIC PRINCIPLES AND TECHNIQUES | GENERAL INTRODUCTION & METHODS OF PURIFICATION | 3 | | | https://video.wixstatic.com/video/f29914_4bf5dc67172c4137b2b039da8419830b/720p/mp4/file.mp4 | |
| 66 | | DECEMBER | | | QUALITATIVE AND QUANTITATIVE ANALYSIS | 3 | | | | |
| 67 | | DECEMBER | | | CLASSIFICATION AND IUPAC NOMENCLATURE OF ORGANIC COMPOUNDS | 2 | | | https://video.wixstatic.com/video/f29914_85f799fccf3e42c9b437bf27e9932719/720p/mp4/file.mp4 | |
| 68 | | JANUARY | | | INDUCTIVE EFFECT, ELECTROMERIC EFFECT | 2 | | | | |
| 69 | | JANUARY | | | RESONANCE AND HYPER CONJUGATION | 2 | | | | |
| 70 | | JANUARY | | | HOMOLYTIC AND HETEROLYTIC FISSION OF A COVALENT BOND | 1 | | | | |
| 71 | | JANUARY | | | TYPES OF ORGANIC REACTIONS | 3 | | | https://video.wixstatic.com/video/f29914_eadb7cc647874c9cb30cbb71952e58b8/720p/mp4/file.mp4 | |
| 72 | | JANUARY | | | TEST | 1 | | | | |
| 73 | GRB PUBLICATION - PART II | JANUARY | 9 | HYDROCARBONS | ALKANES - NOMENCLATURE, ISOMERISM, CONFORMATION, PHYSICAL PROPERTIES | 2 | | | https://video.wixstatic.com/video/f29914_9914ccb14fab4ee8886a7133fba554df/720p/mp4/file.mp4 | |
| 74 | | JANUARY | | | CHEMICAL REACTIONS OF ALKANE | 2 | | | | |
| 75 | | JANUARY | | | ALKENES - NOMENCLATURE, GEOMETRICAL ISOMERISM & PHYSICAL PROPERTIES | 2 | | | https://video.wixstatic.com/video/f29914_8c3025716eb843b0a775ec38d687e61d/720p/mp4/file.mp4 | |
| 76 | | FEBRUARY | | | METHODS OF PREPARATION, CHEMICAL REACTIONS OF ALKENE. | 2 | | | | |

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| 77 | | FEBRUARY | | | ALKYNES - NOMENCLATURE & PHYSICAL PROPERTIES | 2 | | | https://video.wixstatic.com/video/f29914_8c3025716eb843b0a775ec38d687e61d/720p/mp4/file.mp4 | |
| 78 | | FEBRUARY | | | METHODS OF PREPARATION & CHEMICAL REACTIONS OF ALKYNE. | 2 | | | | |
| 79 | | FEBRUARY | | | BENZENE: RESONANCE & AROMATICITY | 2 | | | | |
| 80 | | FEBRUARY | | | CHEMICAL PROPERTIES: MECHANISM OF ELECTROPHILIC SUBSTITUTION | 2 | | | | |
| 81 | | FEBRUARY | | | DIRECTIVE INFLUENCE OF FUNCTIONAL GROUP IN MONOSUBSTITUTED BENZENE | 2 | | | | |
| 82 | | FEBRUARY | | | CARCINOGENICITY AND TOXICITY | 2 | | | | |
| 83 | | FEBRUARY | | | TEST/REVISION | 3 | | | | |
| FINAL ASSESSMENT | | | | | | | | | | |