



**Yugantar Public School, Rajnandgaon  
Breakup Syllabus 2023-24**

CLASS : XI ENGLISH			
Month	Syllabus	Total Days	Completed/ Not Completed
<b>April</b>	Introduction-Syllabus-TextbookGrammar-TensesDeterminersPoem -A Photograph- Explanation		
<b>June</b>	Recap of A PhotographPortrait of a Lady- HornbillThe Summer of a Beautiful white horse- Snapshot		
<b>July</b>	WS- Short Composition - Classified Advertisement-Situation Vacant/Wanted WS- Short Composition - Classified Advertisement- Sale/Purchase-Property, VehicleMONTHLY TEST BEGINS WS- Short Composition - Classified Advertisement-Sale/Purchase-Household goodsWS- Short Composition - Commercial Advt. Launch of ProductsPoem- Laburnum Top (Hornbill)Poster Designing- Short CompositionsThe Address- SNAPSHOTS)Revision of taught lessonsPoem- The Voice of the Rain (HORNBILL)Grammar- Error Detection(Finding)		
<b>August</b>	We are not Afraid to Die.. (HORNBILL)WS- Speech Writing- Long CompositionsDiscovering Tut The Saga .... (HORNBILL)WS- Note MakingGrammar- Reordereing of Jumble WordsMONTHLY TEST II Mother's Day (SNAPSHOTS) Revision - Doubt Clearing		
<b>September</b>	Grammar- Reported SpeechGrammar- Reported SpeechListening /Speaking TestListening /Speaking TestWS- DebatePoem - Childhood(HORNBILL)Revision for HALF YEARLY		
<b>October</b>	Revision for Half Yearly, HALF YEARLY EXAMINATIONInter School English Competitions (Felicitation Ceremony)Birth (SNAPSHOTS)		
<b>November</b>	Poem- Father to Son (HORNBILL), Silk Road (HORNBILL), The Tale of Melon City - (SNAPSHOTS)Revision for MT III		
<b>December</b>	Revision for MT IIINotes - The Tale of Melon City - (SNAPSHOTS)The Adventure (HORNBILL)		
<b>January</b>	REVISION FOR FINAL EXAMINATION		
<b>February</b>	REVISION FOR FINAL EXAMINATION		
<b>March</b>	FINAL EXAMINATION		

Teacher Name:

PRINCIPAL



## Yugantar Public School, Rajnandgaon Breakup Syllabus 2023-24

CLASS : XI HINDI

Month	Syllabus	Total Days	Completed/ Not Completed
April			
June	छात्र परिचयनमक का दारोगाकबीर के पद		
July	कबीर के पद,मीरा के पद,मियाँ नसीरुद्दीन, अपू के साथ ढाई साल,विदाई संभाषण,घर की याद ,कहानी -नाटक -लेखन रचना प्रक्रिया,		
August	गलता लोहा ,भारतीय गायिकाओं में बेजोड़ : लता मंगेशकर,चंपा काले-काले अच्छर नहीं चीन्हती,राजस्थान की रजत बूँदें,		
September	जामुन का पेड़,गज़ल,आलेख/ फ़ौचर/समाचार -लेखन,पुनरावृत्ति (अर्द्धवार्षिक परीक्षा की)		
October	पुनरावृत्ति (अर्द्धवार्षिक परीक्षा की)अर्द्धवार्षिक परीक्षा प्रारंभआलो आंधारिभारतमाता		
November	भारतमाता ,वचन,		
December	सबसे खतरनाक, आओ मिलकर बचाएँ,		
January	रचनात्मक-लेखन,रेडियो नाटकपत्रकारिता और जनसंचार माध्यमपुनरावृत्ति		
February	पुनरावृत्ति		
March	Annual Examination		

Teacher Name:

Principal



# Yugantar Public School, Rajnandgaon

## Breakup Syllabus 2023-24

CLASS : XI MATHEMATICS

Month	Syllabus	Total Days	Completed/ Not Completed
April	Sets and Functions		
June	Sets and Functions		
July	Trigonometric Functions,		
August	Complex Numbers and Quadratic Equations, Linear Inequalities, Permutations and Combinations		
September	Binomial Theorem, Coordinate Geometry, Sequence and Series		
October	Calculus		
November	Calculus		
December	Statistics and Probability, Straight Lines, Conic Sections		
January	REVISION FOR FINAL EXAMINATION		
February	REVISION FOR FINAL EXAMINATION		
March	FINAL EXAMINATION		

Teacher Name:

PRINCIPAL



# Yugantar Public School, Rajnandgaon

## Breakup Syllabus 2023-24

CLASS : XI PHYSICS

Month	Syllabus	Total Days	Completed/ Not Completed
April	Chapter-1: Electric Charges and Fields		
June	Chapter-2: Electrostatic Potential and Capacitance		
July	Chapter-3: Current Electricity Chapter-4: Moving Charges and Magnetism		
August	Chapter-5: Magnetism and Matater Chapter-6: Electromagnetic Induction		
September	Chapter-7: Alternating Current Chapter-8: Electromagnetic Waves		
October	Chapter-9: Ray Optics and Optical Instruments Chapter-10: Wave Optics		
November	Chapter-11: Dual Nature of Radiation and Matter Chapter-12: Atoms		
December	Chapter-13: Nuclei Chapter-14: Semiconductor Electronics: Materials, Devices and Simple Circuits		
January	Revision for Annual Exam		
February	Revision for Annual Exam		
March	Revision for Annual Exam		

Teacher Name:

PRINCIPAL



# Yugantar Public School, Rajnandgaon

## Breakup Syllabus 2023-24

CLASS : XI CHEMISTRY

Month	Syllabus	Total Days	Completed/ Not Completed
<b>April</b>			
<b>June</b>	Unit I: Some Basic Concepts of Chemistry, General Introduction: Importance and scope of chemistry. Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms, and molecules. mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry. Numericals and exercise questions,		
<b>July</b>	Unit II: Structure of Atom , Introduction cathode rays and anode rays, Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, rules for filling electrons in orbitals – Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals. Numericals and exercise questions, Unit III: Classification of Elements and Periodicity in Properties, Modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100, Solution of exercise questions, Unit IV: Chemical Bonding and Molecular structure, Valence electrons, ionic bond, covalent bond, Lewis structure, bond parameters, covalent character of ionic bond, valence bond theory,		
<b>August</b>	resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules (qualitative idea only), hydrogen bond. Solution of exercise questions, Unit V: Chemical Thermodynamics, Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics - internal energy and enthalpy, heat capacity and specific heat, measurement of $\Delta U$ and $\Delta H$ , Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief introduction). Introduction of entropy as a state function, Gibb's energy change for spontaneous and non-spontaneous processes, criteria for equilibrium. Third law of thermodynamics (brief introduction). Numericals and exercise questions, Unit VI: Equilibrium, Equilibrium in physical and chemical processes, dynamic nature of equilibrium,		

<b>September</b>	law of mass action, equilibrium constant, factors affecting equilibrium- Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of polybasic acids, acid strength, concept of pH, Henderson Equation, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (with illustrative examples). Numericals and exercise questions, Unit VII: Redox Reactions, Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions. Revision for half yearly examination		
<b>October</b>	Revision for half yearly examination, Unit XII: Organic Chemistry – Some Basic Principles and Techniques, Classification of organic compounds, Nomenclature of organic compounds, Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation.		
<b>November</b>	Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions. methods of purification, qualitative and quantitative analysis, Unit XIII: Hydrocarbons, Classification of Hydrocarbons, Alkanes – Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion, and pyrolysis. Alkenes – Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, ozonolysis, oxidation, mechanism of electrophilic addition.		
<b>December</b>	Alkynes – Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes addition reaction of – hydrogen, halogens, hydrogen halides and water. Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity. Rehearsal for Annual function,		
<b>January</b>	Unit IX: Hydrogen Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen, hydrides-ionic covalent and interstitial; physical and chemical properties of water, heavy water, hydrogen peroxide-preparation, reactions and structure and use; hydrogen as a fuel. Solution of exercise questions Unit X: s-Block Elements (Alkali and Alkaline Earth Metals) Group 1 and Group 2 Elements General introduction, electronic configuration occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens, uses. Preparation and Properties of Some Important Compounds: Sodium Carbonate, Sodium Chloride, Sodium Hydroxide and Sodium Hydrogencarbonate, Biological importance of Sodium and Potassium. Calcium Oxide and Calcium Carbonate and their industrial uses, biological importance of Magnesium and Calcium Unit XI: p -Block		
<b>February</b>	uses of some important compounds: oxides. Important compounds of Silicon and a few uses: Silicon Tetrachloride, Silicones, Silicates and Zeolites, their uses Practicals Revision		
<b>March</b>	Annual Examination		



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CLASS : XI Biology			
Month	Syllabus	Total Days	Completed/ Not Completed
April			
June	Chapter-1: The Living World : Biodiversity; Need for classification; Three domains of life; taxonomy and systematics; Concept of species and taxonomical hierarchy binomial nomenclature Doubt clearance session Chapter-2: Biological Classification : Five kingdom classification; Salient features and classification of Monera, Protista and Fungi Lichens, Viruses and Viroids Doubt clearance session		
July	Chapter-3: Plant Kingdom : Classification of plants into major groups; Salient and distinguishing features and a few examples of Algae Salient and distinguishing features and a few examples of algae Salient and distinguishing features and a few examples of bryophytes Salient and distinguishing features and a few examples of bryophytes Salient and distinguishing features and a few examples of Pteridophyta Salient and distinguishing features and a few examples of gymnosperms Doubt clearance session Chapter-4: Animal Kingdom Salient features and classification of animals, non-chordates up to phyla level non-chordates up to phyla level chordates up to class level (salient features and at a few examples of each category). chordates up to class level (salient features and at a few examples of each category). Doubt clearance session Chapter-5: Morphology of Flowering Plants Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower,		
August	. Description of family Solanaceae. Description of family Solanaceae Doubt clearance session Chapter-6: Anatomy of Flowering Plants Anatomy and functions of tissue systems in dicots Anatomy and functions of tissue systems in dicots and monocots Anatomy and functions of tissue systems in dicots and monocots Doubt clearance session Chapter-7: Structural Organisation in Animals : Morphology of frog Anatomy and functions of different systems digestive, circulatory of frog Anatomy and functions of different systems respiratory, nervous and reproductive of frog Doubt clearance session Chapter-8: Cell-The Unit of Life : Cell theory and cell as the basic unit of life structure of prokaryotic structure of eukaryotic cells Plant cell and animal cell; cell envelope; cell membrane, cell wall; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles nucleus Doubt clearance session Chapter-9: Biomolecules : Chemical constituents of living cells: biomolecules,		
September	structure and function of proteins, structure and function of carbohydrates, lipids, structure and function of nucleic acids Enzyme - types, properties, enzyme action Doubt clearance session Chapter-10: Cell Cycle and Cell Division : Cell cycle, mitosis, significance Doubt clearance session/class test Chapter-11: Photosynthesis in Higher Plants : Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary ideas) photochemical and biosynthetic phases of photosynthesis cyclic and non-cyclic photophosphorylation chemiosmotic hypothesis photorespiration C3 pathways C4 pathways factors affecting photosynthesis Doubt clearance session/class test		

<b>October</b>	Chapter-12: Respiration in Plants: Exchange of gases; cellular respiration - glycolysisExchange of gases; cellular respiration - glycolysisfermentation (anaerobicTCA cycle electron transport system (aerobic)energy relations - number of ATP molecules generated;amphibolic pathways; respiratory quotientDoubt clearance session/class testChapter-13: Plant - Growth and Developmen : Seed germination; phases of plant growth and plant growth rateconditions of growthdifferentiation, dedifferentiation and redifferentiation;equence of developmental processes in a plant cellgrowth regulators - auxin, gibberellingrowth regulators - cytokinin, ethylene, ABADoubt clearance session/class testUnit-V Human Physiology Chapter-14: Breathing and Exchange of Gases: Respiratory organs in animals (recall only); Respiratory system in humansMechanism of breathing and its regulation in humans exchange of gasestransport of gases and regulation of respiration respiratory volume		
<b>November</b>	disorders related to respiration - asthma, emphysema occupational respiratory disorders.Doubt clearance session/class testChapter-15: Body Fluids and Circulation : Composition of blood, blood groups, coagulation of blood; composition of lymph and its functionhuman circulatory system - Structure of human heart and blood vesselscardiac cycle,cardiac output, ECG; double circulation;regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failureDoubt clearance session/class testChapter-16:		
<b>December</b>	kidney transplantDoubt clearance session/class testChapter-17: Locomotion and Movement Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteinsmuscle contraction; skeletal system and its functionsjoints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, goutDoubt clearance session/class testChapter-18: Neural Control and Coordination : Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system;generation and conduction of nerve impulseDoubt clearance session/class testChapter-19: Chemical Coordination and Integration : Endocrine glands and hormones; human endocrine system - hypothalamus,pituitary, pinealthyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone actionrole of hormones as messengers and regulators, hypo - and hyperactivity and related disordersdwarfism, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's diseaseDoubt clearance session/class test		
<b>January</b>	Revision		
<b>February</b>	Revision		
<b>March</b>	Annual Examination		

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CLASS : XI IP

Month	Syllabus	Total Days	Completed/ Not Completed
<b>April</b>	SyllabusUnit 2: Introduction to Python :Basics of Python programming, Python interpreter - interactive and script modethe structure of a program, indentation, identifiers, keywordsconstants, variables, types of operators,precedence of operators, data types, mutable and immutable data typesstatements, expressions,evaluation and comments, input and output statements		
<b>June</b>	data type conversion, debugging.Control Statements: if-elseif-elif-else,while loop, for loop		
<b>July</b>	traversing and manipulating lists,list methods and built-in functions – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum()Dictionary: concept of key-value pair, creating, initializing, traversingupdating and deleting elements, dictionary methodsbuilt-in functions – dict(), len(), keys(), values(), items(), update(), del(), clear()Unit 3: Database concepts and the Structured Query Language Database Concepts: Introduction to database concepts and its need, Advantages of using structured Query Language, Data Definition LanguageData Query Language and Data Manipulation Language, Introduction to MySQL,creating a database using MySQL, Data Types Data Definition: CREATE DATABASECREATE TABLE, DROP, ALTERData Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL		
<b>August</b>	Unit 4: Introduction to the Emerging Trends Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart citiesCloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.Unit 1: Introduction to Computer System Introduction to computer and computing: evolution of computing devices		
<b>October</b>	components of a computer system and their interconnections, Input/output devices.Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns.Software: purpose and types – system and application software, generic and specific purpose software.		
<b>November</b>			
<b>December</b>			
<b>January</b>			
<b>February</b>			
<b>March</b>			

Teacher Name:

Principal



**Yugantar Public School, Rajnandgaon**  
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CLASS : XI PE

Month	Syllabus	Total Days	Completed / Not Completed
April	General introduccton about Physical education abd Physical fitness.		
June	Unit I-Changing trends and career in physical education.		
July	Unit- II Olympism, Unit- 3 Yoga		
August	Unit- IV Physical Education and Sports for CWNS (Children With Special Needs-Divyang)		
September	Unit- V Physical Fitness ,Health and Wellness Unit- VI Test and Measurment and Evaluation		
October	Unit-VII Fundamental of Anotomy and physiology in sports		
November	Unit- VIII Fundamental of Kinesiology and Biomechanics in sports.		
December	Unit- IX- Psychology and Sports Unit- X Training and Doping in Sports .		
January	Project Work - Badminton Class Test & revision , Practical Exam		
February	Class Test & revision		
March	Annual Exam		

Teacher Name:

PRINCIPAL