

## 12-English

मास	अभ्यासक्रमनुं मासवार वाषिक आयोजन	
April	Unit 1 Read: 1.Can You Install Love? Read: 2.Sunrise On The Kangchenjunga	-Positive aspects of your Personality - 'Love is more powerful than hatred and grudge.
Jun	Unit 2 Read: 1.Unforgettable Walt Disney Read: 2.Shaper Shaped	-Your favourite cartoon series.
July	Unit 3 Read: 1.Manage Your Stress Read: 2.Stress Control Exercise Unit 4 Read: 1.The Adjustment Read: 2.Blind, Deaf fish	-'Benifits of Positive Attitude My Grandparent: Write a report on you visited an old age home in your city Last week.
Aug.	Unit 5 Read: 1.Ants Read: 2.No Men Are Foreign Unit 6 Read: 1.Strike Against War	-Helen keller-An Inspiring figure.
Sep.	Unit 7 Read: 1.Monkey's Paw 2.Sojourner Truth	-Superstition -Problems of working women
Oct. & Nov.	Unit 8 Read: 1.For Youth Read: 2.Heaven Of Freedom	
Dec.	Unit 9. Read: 1.Headache Unit 10 Read: 1.Green Charter	
Jan.	Revision	
Feb.	Revision	
March.	Revision	

## GSEB STD-12 BIOLOGY

Sr.No	Month	Topic	Sub Topic	Activity
1	May	Ch.1 Reproduction in Organisms  Ch.2 Sexual Reproduction in Flowering Plants  Ch.4 Reproductive Health	- Asexual Reproduction - Sexual Reproduction  -Flower-A Fascinating Organ of Angiosperms -Pre –fertilization: Structures and Events -Double Fertilization -Post-fertilization :Structure and Events -Apomixis and polyembryony  -Health Problems and Strategies -Population Explosion & Birth Control -Medical Termination of Pregnancy -Sexually Transmitted Diseases -Infertility.	Practical in Biology Lab  & Videos
2	June	Ch.3 Human Reproduction  Ch.5 Principles of Inheritance & Variation	- The Male Reproductive System - The Female Reproductive System - Gametogenesis - Menstrual Cycle - Fertilization & Implantation - Pregnancy & Embryonic Development -Parturition & Lactation  - Mendel's Laws of Inheritance - Inheritance of One Gene - Inheritance of Two Genes -Sex Determination -Mutation - Genetic Disorders	Practical in Biology Lab  & Videos
3	July	Ch.6 molecular Basis of Inheritance  Ch.7 Evolution	- The DNA - The Search for Genetic -RNA World - Replication - Transcription - Genetic Code - Translation -Regulation Of Gene Expression -Human Genome Project - DNA Fingerprinting -Origin of Life - Evolution of Life Forms Theory - What are the Evidences for Evolution? -What is Adaptive Radiation? -Biological Evolution -Mechanism of Evolution - Hardy Weinberg Principle - A Brief Account of Evolution - Origin & Evolution of Man	Practical in Biology Lab  & Videos
4	Aug	Ch.8 Human Health & Disease  Ch.9 Strategies For Enhancement In Food Production	-Common Diseases in Humans -Immunity -AIDS -Cancer -Drugs & Alcohol Abuse  -Animal Husbandry - Plant Breeding -Single Cell Proteins & Tissue Culture	Practical in Biology Lab  & Video

5	Sep	Ch.10 Microbes In Human Welfare	<ul style="list-style-type: none"> <li>- Microbes in Household Products</li> <li>- Microbes in Industrial Products</li> <li>- Microbes in Sewage Treatment</li> <li>- Microbes in Production Of Biogas</li> <li>-Microbes as Biocontrol Agents</li> <li>- Microbes as Biofertilisers</li> </ul>	Practical in Biology Lab  & Video
		Ch.11 Biotechnology	<ul style="list-style-type: none"> <li>- Biotechnology: Principles &amp; Processes</li> <li>-Biotechnology &amp; its Applications</li> </ul>	
6	Oct	Ch.12 Biotechnology & its Applications	<ul style="list-style-type: none"> <li>-Biotechnological Applications in Agriculture</li> <li>-Biotechnological Application in Medicine</li> <li>-Transgenic Animals</li> <li>-Ethical Issues</li> </ul>	Practical in Biology Lab  & Video
		Ch.13 Organisms & Populations	<ul style="list-style-type: none"> <li>-Organism &amp; Its Environment</li> <li>- Populations</li> </ul>	
7	Nov	Ch.13 (Cont.)		Practical in Biology Lab  & Video
		Ch.14 Ecosystem	<ul style="list-style-type: none"> <li>-Ecosystem-Structure &amp; Function</li> <li>-Productivity</li> <li>-Decomposition</li> <li>-Energy Flow</li> <li>- Ecological Pyramids</li> <li>-Ecological Succession</li> <li>-Nutrient Cycling</li> <li>-Ecosystem services</li> </ul>	
8	Dec	Ch.15 Biodiversity & conservation	<ul style="list-style-type: none"> <li>-Biodiversity</li> <li>-Biodiversity Conservation</li> </ul>	Practical in Biology Lab  & Video
		Ch.16 Environmental Issues	<ul style="list-style-type: none"> <li>-Air Pollution &amp; its Control</li> <li>- Water Pollution &amp; its Control</li> <li>- Solid Wastes</li> <li>-Agro-chemical &amp; their effects</li> <li>-Radioactive Wastes</li> <li>- Greenhouse Effect &amp; Global Warming</li> <li>- Ozone Depletion in the Stratosphere</li> <li>- Degradation by Improper Resource Utilization &amp; Maintenance</li> </ul>	
9	Jan	Ch.16 (Cont.)	<ul style="list-style-type: none"> <li>-Radioactive Wastes</li> <li>- Greenhouse Effect &amp; Global Warming</li> <li>- Ozone Depletion in the Stratosphere</li> <li>- Degradation by Improper Resource Utilization &amp; Maintenance</li> </ul>	
		Revision		
10	Feb	Revision	-	-
11	Mar	Revision	-	-

## Chemistry- 12<sup>th</sup> (Science)

S.N.	Month	Topic	Sub Concept	Activity
1	May/	Ch-1 The Solid State	<ul style="list-style-type: none"> <li>- General characteristics</li> <li>- Amorphous &amp; Crystalline</li> <li>- Classification of Crystalline solids</li> <li>- Crystal Lattice &amp; Unit cell</li> <li>- No.of Atoms in Unitcell</li> <li>- Close packed structures</li> <li>- Packing Efficiency</li> <li>- Calculation Involving U.C</li> <li>- Imperfection in Solids</li> <li>- Electrical Properties</li> <li>- Magnetic properties</li> </ul>	- Lab & Videos
	June	Ch-2 Solutions	<ul style="list-style-type: none"> <li>- Types of solutions &amp; Concentration</li> <li>- Solubility</li> <li>- V.P of Liquid solution</li> <li>- Ideal &amp; Non-Ideal solution</li> <li>- Colligative properties</li> <li>- Abnormal molar mass.</li> </ul>	- Lab & Videos
2	July	Ch-3 Electro chemistry	<ul style="list-style-type: none"> <li>- Electrochemical cells</li> <li>- Galvanic cells &amp; Nernst Eq.</li> <li>- Conductance of electrolytic sol.</li> <li>- Electrolytic cell &amp; Electrolysis</li> <li>- Batteries ,Fuel cell, Corrosion</li> </ul>	- Lab & Videos
		Ch-4 Chemical Kinetics	<ul style="list-style-type: none"> <li>- Rate &amp; Factors of Reaction.</li> <li>- Integrated Rate Equation</li> <li>- Pseudo first order Reaction</li> <li>- Temperature dependance of the rate of a Reaction</li> <li>- Collision theory</li> </ul>	- Lab & Videos
3	Aug	Ch-5 Surface chemistry	<ul style="list-style-type: none"> <li>- Adsorption &amp; Catalysis</li> <li>- Classification of colloids colloids around us</li> <li>- Emulsions</li> </ul>	- Lab & Videos
		Ch-6 General Principles & Process of Isolation of Elements	<ul style="list-style-type: none"> <li>- Occurrence of metals</li> <li>- Concentration of ores</li> <li>- Extraction of Crude metal</li> <li>- Thermodynamic C Principle of metallurgy</li> <li>- Electrochemical principle of metallurgy</li> <li>- Oxidation-Reduction, Refining &amp; Uses</li> </ul>	- Lab & Videos
		Ch-7 The P-block Elements	<ul style="list-style-type: none"> <li>- Classification &amp; Types of Reactions</li> <li>- 15 to 18 Groups Elements &amp; their compounds : Physical &amp; chemical properties &amp; uses</li> </ul>	- Lab & Videos
4	Sept	Ch-8 d & f-block Elements	<ul style="list-style-type: none"> <li>- Position &amp; Electronic configuration</li> <li>- General Properties</li> <li>- Some important compounds</li> <li>- Lanthanoid &amp; Actinoids</li> </ul>	- Lab & Videos

## Chemistry- 12<sup>th</sup> (Science)

S.N.	Month	Topic	Sub Concept	Activity
5	Sept	Ch-9 Co-ordination compounds	<ul style="list-style-type: none"> <li>- Werner's Theory</li> <li>- Nomenclature &amp; Isomerism</li> <li>- Bonding &amp; Stability</li> <li>- Importance &amp; Applications</li> </ul>	- Lab & Videos
6	Oct	Ch-10 Haloalkanes & Haloarenes	<ul style="list-style-type: none"> <li>- Classification</li> <li>- Nomenclature</li> <li>- Nature of C-X bond</li> <li>- Methods of preparation of Haloalkanes</li> <li>- Preparations</li> <li>- Physical properties</li> <li>- Chemical Reactions</li> </ul>	<ul style="list-style-type: none"> <li>- Lab &amp; Videos</li> <li>- Lab &amp; Videos</li> </ul>
		Ch-11 Alcohols, phenol & Ethers	<ul style="list-style-type: none"> <li>- Classification &amp; Nomenclature</li> <li>- Structures &amp; F.G</li> <li>- Alcohol &amp; Phenols</li> <li>- Ethers</li> </ul>	- Lab & Videos
7	Nov	Ch-12 Aldehydes ketones & carboxylic Acids	<ul style="list-style-type: none"> <li>- Nomenclature &amp; Structure</li> <li>- Preparation of Aldehyde &amp; ketone &amp; Uses</li> <li>- Physical &amp; chemical Reaction</li> <li>- Methods of preparation of carboxylic Acids &amp; its physical &amp; chemical Reactions &amp; Uses</li> </ul>	- Lab & Videos
		Ch-13 Amines	<ul style="list-style-type: none"> <li>- Structure, classification</li> <li>- Nomenclature, Preparation</li> <li>- Physical &amp; Chemical properties</li> <li>- Methods of Preparation of Diazonium salts &amp; importance</li> </ul>	- Lab & Videos
8	Dec	Ch-14 Biomolecules	<ul style="list-style-type: none"> <li>- Carbohydrates, proteins &amp; Enzymes</li> <li>- Vitamins, Nucleic Acids &amp; Hormones</li> </ul>	- Lab & Videos
		Ch-15 Polymers	<ul style="list-style-type: none"> <li>- Classification &amp; Type of Reactions</li> <li>- Molecular mass of polymers</li> <li>- Biodegradable polymers</li> <li>- Polymers of commercial importance</li> </ul>	- Lab & Videos
		Ch-16 Chemistry in every day life	<ul style="list-style-type: none"> <li>- Drugs &amp; their classification</li> <li>- Drug-Target Interaction</li> <li>- Therapeutic Action</li> <li>- Chemical is in Food &amp; cleansing agents</li> </ul>	- Lab & Videos
9	Jan	- Revision & Doubt solving	- Revision & Doubt solving	
10	Feb	- Revision & Doubt solving	- Revision & Doubt solving	
11	March	Board Exam		

## Maths- 12<sup>th</sup> (Science)

S.N.	Month	Chapter / Topic
1	June	- Ch.1: Relations and Functions - Ch.2: Inverse Trigonometric Functions
2	July	Ch.2: Inverse Trigonometric Functions(contd.) Ch.3: Matrices Ch.4: Determinants
3	Aug	Ch.5: Continuity and Differentiability Ch.6: Application of Derivatives
4	Sept	Ch.7: Integrals Ch.8: Application of Integrals
5	Oct	Ch.9: Differential Equations Ch.10: Vector Algebra
6	Nov	Ch.11: Three Dimensional Geometry
7	Dec	Ch.12: Linear Programming Ch.13: Probability
8	Dec	Ch.13: Probability ( contd. )

## Physics - 12<sup>th</sup> (Science)

S.N.	Month	Chapter / Topic
1	June	Ch.1: Electric charges and fields Ch.2: Electrostatic potential & Capacitance
2	July	Ch.2: Electrostatic potential & Capacitance (contd.) Ch.3: Current Electricity
3	Aug	Ch.4: Moving Charges & Magnetism Ch.5: Magnetism & Matter Ch.6: Electromagnetic Induction
4	Sept	Ch.6: Electromagnetic Induction (contd.) Ch.7: Alternating Current Ch.8: Electromagnetic Waves
5	Oct	Ch.9: Ray Optics & Optical Instruments
6	Nov	Ch.10: Wave Optics Ch.11: Dual Nature
7	Dec	Ch.12: Atoms Ch.13: Nuclei
8	Jan	Ch.14: Semiconductor Electronics: Materials, Devices & Simple Circuits