Content

Chemistry

Physics

Biology

Maths

English

Computer

Chemistry- 12th (Science)

S.N.	Month	Topic	Sub Concept	Activity
1		Ch-1 The Solid State	- General characteristics	-Lab & Videos
	May/		- Amorphous & Crystaline	
			- Classification of Crystaline solids	
			- Crystal Lattice & Unit cell	
			- No.of Atoms in Unitcell	
			- Close packed structures	
			- Packing Efficiency	
			- Calculation Involving U.C	
			- Imperfaction in Solids	
			- Electrical Properties	
			- Magnetic properties	
	June	Ch-2 Solutions	- Types of solutions & Concentration	
			- Solubility	- Lab & Videos
			- V.P of Liquid solution	
			- Ideal & Non-Ideal solution	
			- Colligative properties	
			- Abnormal molar mass.	
2	July	Ch-3 Electro chemistry	- Electrochemical cells	- Lab & Videos
			- Galvanic cells & Nernest Eq.	
			- Conductance of electrolytic sol.	
			- Electrolytic cell & Electrolysis	
			- Batteries ,Fuel cell, Corrosion	
		Ch-4 Chemical Kinetics	- Rate & Factors of Reaction.	
			- Integrated Rate Equation	- Lab & Videos
			- Pseudo first order Reaction	
			- Temperature dependance of the rate of	
			a Reaction	
			- Collision theory	
}	Aug	Ch-5 Surface chemistry	- Adsorption & Catalysis	- Lab & Videos
			- Classification of colloids colloids	
			around us	
			- Emulsions	
		Ch-6 General Principles &	- Occurrence of metals	- Lab & Videos
		Process of Isolation of Elements	- Concentration of ores	Las a viacco
		1 100033 of Isolation of Elements	- Extraction of Crude metal	
			- Thermodynamic C Principle of	
			metallurgy	
			- Electrochemical principle of metallurgy	
			- Oxidation-Reduction, Refining & Uses	
			- Classification & Types of Reactions	- Lab & Videos
		Ch-7 The P-block Elements	- 15 to 18 Groups Elements & their	- Lan & VIUCUS
		One i The i -block Eleffields	·	
			compounds : Physical & chemical	
1	Cont	Ch Od Of block Flores into	properties & uses	
1	Sept	Ch-8 d & f-block Elements	- Position & Electronic configuration	
			- General Properties	l ob 0 \/:d===
			- Some important compounds	- Lab & Videos
			- Lanthanoid & Actinoids	

Chemistry- 12th (Science)

S.N.	Month	Topic	Sub Concept	Activity
5	Sept	Ch-9 Co-ordination compounds	- Werner's Theory	- Lab & Videos
			- Nomenclature & Isomerism	
			- Bonding & Stability	
			- Importance & Applications	
3	Oct	Ch-10 Haloalkanes &	- Classification	- Lab & Videos
		Haloarenes	- Nomenclature	
			- Nature of C-X bond	- Lab & Videos
			- Methods of preparation of Haloalkanes	
			- Preparations	
			- Physical properties	
			- Chemical Reactions	
		Ch-11 Alcohols, phenol & Ethers	- Classification & Nomenclature	- Lab & Videos
			- Structures & F.G	
			- Alcohol & Phenols	
			- Ethers	
7	Nov	Ch-12 Aldehydes ketones &	- Nomenclature & Structure	
		carboxylic Acids	- Preparation of Aldehyde & ketone &	- Lab & Videos
			Uses	
			- Physical & chemical Reaction	
			- Methods of preparation of carboxylic	
			Acids & its physical & chemical	
			Reactions & Uses	
		Ch-13 Amines	- Structure, classification	- Lab & Videos
			- Nomenclature, Preparation	
			- Physical & Chemical properties	
			- Methods of Preparation of Diazonium	
			salts & importance	
3	Dec	Ch-14 Biomolecules	- Carbohydrates, protiens & Enzymes	- Lab & Videos
			- Vitamins, Nucleic Acids & Hormones	
		Ch-15 Polymers	- Classification & Type of Reactions	- Lab & Videos
		_	- Molecular mass of polymers	
			- Biodegradable polymers	
			- Polymers of commercial importance	
		Ch-16 Chemistry in every day life	- Drugs & their classification	- Lab & Videos
			-Drug-Target Interaction	
			-Therapeutic Action	
			-Chemical is in Food d & cleansing	
			agents	
9	Jan	- Revision & Doubt solving	- Revision & Doubt solving	
10	Feb	- Revision & Doubt solving	- Revision & Doubt solving	
11	March	Board Exam		

STD.-12 - PHYSICS - 2021-22

Month	Chapters & Topics
June	Ch.1: Electric charges and fields
	Ch.2: Electrostatic potential & Capacitance
July	Ch.2: Electrostatic potential & Capacitance (contd.)
	Ch.3: Current Electricity
August	Ch.4: Moving Charges & Magnetism
	Ch.5: Magnetism & Matter
September	Ch.6: Electromagnetic Induction
	Ch.7: Alternating Current
	Ch.8: Electromagnetic Waves
October	Ch.9: Ray Optics & Optical Instruments
November	Ch.10: Wave Optics
	Ch.11: Dual Nature
December	Ch.12: Atoms
	Ch.13: Nuclei
January	Ch.14: Semiconductor Electronics: Materials, Devices & Simple Circuits

		GSEB S	TD-12 BIOLOGY – 2021-22	
Sr.No	Month	Topic	SubTopic	Activity
1	April	Ch.1 ReproductioninOrg anisms	- AsexualReproduction - SexualReproduction	Practical inBiologyLa b
		Ch.2 SexualReproduc tion inFloweringPlant s	-Flower-AFascinatingOrganofAngiosperms -Pre–fertilization:StructuresandEvents -DoubleFertilization -Post-fertilization :StructureandEvents -Apomixisandpolyembryony	& Videos
		Ch.4 ReproductiveHealt h	-HealthProblemsandStrategies -PopulationExplosion&BirthControl -MedicalTerminationofPregnancy -SexuallyTransmittedDiseases -Infertility.	
2	June (18 d)	Ch.3 Human Reproduction	 TheMaleReproductiveSystem TheFemaleReproductiveSystem Gametogenesis MenstrualCycle Fertilization&Implantation Pregnancy&EmbryonicDevelopment Parturition&Lactation 	Practical inBiologyLa b &V ideos
		Ch.5PrinciplesofIn heritance&Variatio	- Mendel'sLawsofInheritance - Inheritanceof OneGene	
3	July (22 d)	Ch.5 Continued	InheritanceofTwoGenes-SexDetermination-Mutation-GeneticDisorders	Practical inBiologyLa b
		Ch.6 molecularBasis ofInheritance	- The DNA - TheSearchforGenetic -RNAWorld - Replication - Transcription - Genetic Code - Translation -RegulationOfGeneExpression -HumanGenomeProject - DNA Fingerprinting	ideos
4	Aug (18 d)	Ch.7Evolution	OriginofLife - EvolutionofLifeFormsTheory - WhataretheEvidencesforEvolution? -WhatisAdaptiveRadiation? -BiologicalEvolution -MechanismofEvolution - HardyWeinbergPrinciple - ABriefAccountof Evolution - Origin&EvolutionofMan	Practical inBiologyLa b & Video
		Ch.8Human Health & Disease	CommonDiseasesinHumans -Immunity -AIDS -Cancer -Drugs & Alcohol Abuse	

5	Sep (25 d)	Ch.9 Strategies For Enhancement In Food Production	- Animal Husbandry Plant Breeding SingleCellProteins&Tissue Culture	Practical inBiologyLa b
		Ch.10 Microbes InHumanWelfare	 MicrobesinHouseholdProducts MicrobesinIndustrialProducts MicrobesinSewageTreatment MicrobesinProductionOfBiogas Microbesas BiocontrolAgents MicrobesasBiofertilisers 	Video
		Ch.11 Biotechnology	- Biotechnology:Principles&Processes -Biotechnology& itsApplications	
6	Oct (18 d)	Ch.12 Biotechnology & itsApplications	-BiotechnologicalApplicationsinAgriculture -BiotechnologicalApplicationinMedicine -TransgenicAnimals -EthicalIssues	Practical inBiologyLa b
		Ch.13 Organisms &Populations	-Organism& ItsEnvironment -Populations	& Video
7	Nov (10 d)	14Ecosystem	-Ecosystem-Structure&Function -Productivity -Decomposition -Energy Flow -EcologicalPyramids -EcologicalSuccession -NutrientCycling -Ecosystem services	Practical inBiologyLa b & Video
8	Dec (25 d)	Ch.15 Biodiversity& conservation Ch.16 Environmental Issues	-Biodiversity -BiodiversityConservation -AirPollution&itsControl - WaterPollution&itsControl - SolidWastes -Agro-chemical& theireffects -RadioactiveWastes - GreenhouseEffect& GlobalWarming - OzoneDepletionintheStratosphere - DegradationbyImproperResourceUtilization& Maintenance	Practical inBiologyLa b & Video
9	Jan (15 d)	Revision	-	-
10	Feb (22 d)	Revision	-	-
11	Mar	Revision	-	-

Std -12/Sci

Sub - Maths

Month	Chapters & Topics	Sub Topics
April	Ch.1: Relations and Functions	- Types of Relations
		 Types of Functions
		 Composition of Functions and
		Invertible Function
		- Binary Operations
	Ch.2: Inverse Trigonometric	- Basic Concepts
	Functions	- Properties of Inverse
		Trigonometric Functions
May/	Ch.3: Matrices	- Types of Matrix
June	onio. Matricos	- Operations on Matrices
		- Transpose of a Matrix
		- Symmetric and Skew Symmetric
		Matrices
		- Elementary Operation of a Matrix
		- Invertible Matrices
		- Invertible Matrices
		- Properties of Determinants
	Ch.4: Determinants	- Area of a Triangle
		- Minors and Cofactors
		- Adjoint and Inverse of Matrix
		- Applications of Determinants and
		Matrices
July	Ch.5: Continuity and Differentiability	- Continuity
		- Differentiability
		- Exponential and Logarithmic
		Functions
		- Logarithmic Differentiation
		- Derivatives of Functions in
		Parametric Forms
		- Second Order Derivative
		- Mean Value Theorem
		- Rate of Change of Quantities
	Ch.6: Application of Derivatives	- Increasing and Decreasing
		Functions
		- Tangents and Normals
		- Approximations
		- Maxima and Minima
August	Ch.7: Integrals	- Integration as an Inverse
	S	Process of Differentiation
		- Method of Integration
		 Integrals of some Particular

		Functions - Integration by Partial Fractions - Integration by Parts - Definite Integral - Fundamental Theorem of Calculus - Evaluation of Definite Integrals by Substitution - Some Properties of Definite Integrals
Sep	Ch.8: Application of Integrals	Area Under Simple CurvesArea Between Two Curves
	Ch.9: Differential Equations	 Basic Concepts General and Particular Solutions of a Differential Equation Formation of Differential Equation whose General Solution is given Methods of Solving First order, First Degree Differential Equations
Oct	Ch.10: Vector Algebra	 Some Basic Concepts Types of Vectors Addition of Vectors Multiplications of Vectors by a Scalar Product of Two of Vectors
	Ch.11: Three Dimensional Geometry	 Direction Cosines and Direction Ratios of a Line Equation of a line in space Angle between two lines Shortest distance between two lines Plane Coplanarity of two lines Angle between two planes Distance of a point from of a plane Angle between a line and a plane

Nov	Ch.11: Three Dimensional Geometry (Continue) Ch.12: Linear Programming	 Linear Programming Problem and its Mathematical Formulation Different types of linear programming problems
Dec	Ch.13: Probability	 Conditional Probability Multiplication Theorem on Probability Independent Events Bayes' Theorem Random Variables and its Probability Distributions Bernoulli Trials and Binomial Distribution
Jan	- Revision	
Feb	- Revision	

STD. – 12 – ENGLISH – 2021-22

❖ SYLLABUS:

Month	Topic
JUNE	- THE LAST LESSON - LOST SPRING - MY MOTHER AT SIXTY SIX Question tag Tenses Email formal/informal Job application
JULY	 AN ELEMENTARY SCHOOL CLASSROOM IN A SCHOOL THE THIRD LEVEL THE TIGER KING Advertisement Active passive voice Letter formal/informal Remove "too" REVISION
AUGUST	 DEEP WATER KEEPING QUIET JOURNEY TO THE END OF THE EARTH Rectify the errors Transformation of sentences Note making
SEPTEMBER	THE RATTRAPA THING OF BEAUTYTHE ENEMYSHOULD WIZARD HIT MOMMY?

	Figure of speech Transformation of sentence Direct indirect speech Ways of expression -
OCTOBER	 INDIGO A ROAD SIDE STAND Idioms and phrases Revision
NOVEMBER	 THE INTERVIEW AUNT JENNIFER'S TIGER ON THE FACE OF IT Data interpretation Punctuation
December	 POETS AND PANCAKES GOING PLACES EVANS TRIES AN O-LEVEL MEMORIES OF CHILDHOOD Essay writing Speech writing Note making Unseen comprehension REVISION