TAGORE INTERNATIONAL SCHOOL
VASANT VIHAR, NEW DELHI
SYLLABUS (2025-26)
CLASS XI C & D

MONTH	ENGLISH	MATHEMATICS	PHYSICS	CHEMISTRY	BIOLOGY	COMPUTER SCIENCE	ECONOMICS	PSYCHOLOGY
APR	Prose-The Portrait of a lady

Activity- Thank you card for the grandparents with a poem / wish for them

Poem-A photograph

Activity: Photo Reflection- Students bring a cherished photograph and write a short poem or paragraph | Sets

Activity: Bring out the similarities and differences in the three art forms: Madhubani, phad, pattachitra using the venn -diagram concept of three sets. | Unit and measurement

System of units

Measurement of length

Accuracy, precision

Significant figures

Errors in measurement,

Dimensions

Dimensional analysis and its application | Unit 1 -BASIC CONCEPTS IN CHEMISTRY Matter(Identification and Classification SI unit and measurement Laws of Chemical Combination MoleConcept(Evaluating) LimitingReagent Stoichiometry

Art integration– poster on chemistry and alchemy | Morphology of flowering plants Root Stem Leaves Flower Fruit Seed

Anatomy of flowering plants Dicot/ monocot stem, root and leaves

Art Integration-Leaf Print Art Activity: Create leaf prints for recognition of leaf venation, types of leaf | **CSO** IPO, Storage Units, Mobile System Organization,

Types of memories

Hardware, Software, Firmware, Liveware

Types of software-
● System software
● Application softwares
● Language processors
● utilities | Introduction

Collection, Organisation

Activity-Class activity to collate data and present it as a diagram. | Introduction -

Understanding Psychology

Activity: "Psychology in Daily Life" – Students create a collage or presentation showing how psychology is used in professions like sports, education, medicine, etc. |

Month	English	Mathematics	Physics	Chemistry	Biology	Computer Science	Economics	Psychology
	describing their feelings about it. Writing Skill-Poster Unseen Comprehension Passage Writing Skill- Note making Activity- Note making practice using a news article from the day's newspaper					**NUMBER SYSTEM** Numbers in base 2, 8, 16 and binary addition		
MAY	Prose-The Summer of the beautiful white horse Activity-Debate on the topic: "Is it justifiable to bend moral rules for a good cause? The Address	Complex numbers Linear Inequalities Activity: Using desmos graphing calculator, plot linear inequality number line on graphs	Motion in a straight line Scalar and vectors Path length and displacement Average velocity and average speed Acceleration	MoleConcept LimitingReagent Stoichiometry	Structural Organization in Animals Organ and Organ System in Frogs Cell: Unit of Life What is a Cell? Cell Theory An Overview of Cell,	**BOOLEAN ALGEBRA** Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuit **BASIC PYTHON** -Basics of Python programming: a	Introduction to Microeconomics Activity-Flow chart of micro and macro variables Demand Activity-Scarcity Activity	Methods of Enquiry in Psychology Activity: "Mini Survey Project" – Students conduct a simple survey among peers on a topic like study habits or screen time and present findings.

Month	English	Maths	Physics	Chemistry	Biology	Computer Science		
	Poem The laburnum Top Activity- Calligram of the poem Writing Skill-Speech		Kinematic equations for motion Graph for one dimensional motion		Prokaryotic Cells, Eukaryotic Cells. Cell Cycle and cell division Mitosis Meiosis	simple "hello world" program, the process of writing a program (Interactive & Script mode), running it and print statements; simple data-types: integer, float and string.		
JUL	Prose-We are not afraid to die Discovering Tut Activity- Prepare a podcast as King Tut Poem—The voice of rain Activity: Creative Writing- Students personify natural elements (like rain, wind, or	Relations and functions Trigonometric functions Activity: Presenting types of functions using different dance forms	Revision of **Kinematic equations for motion** Graph for one dimensional motion Motion in a plane Properties of vectors Addition and subtraction of vectors Resolution of vectors	Unit 3 Classification of elements and periodicity in properties ● Trends of properties ● Graphical representation Unit 2 structure of atom.. Practical: crystal preparation	Biomolecules Carbohydrates Proteins Fats Nucleic acids Enzymes Living world Classification Taxonomy Biological Classification Five kingdom classification Plant Kingdom	**Computational Thinking** ●Python Character Set, Token & Identifiers, Keywords, Literals, Delimiters, Operators. ● Introduce the notion of a variable and methods to manipulate it (concept of L-value and R-value even if not taught explicitly). ● data types and operators: accepting input from the console, assignment statement, expressions,	Presentation of Data Mean, median and Mode	Human Development Activity: "Lifeline Timeline" – Students create a timeline of major developmental milestones from infancy to adulthood.

	sun) and write a monologue Writing Skill-Debate		Motion in a plane Relative velocity Projectile motion Uniform circular motion Laws of motion Practical Vernier callipers, Screw gauge, Activity of paper scale Newton's laws of motion Equilibrium of a particle Friction circular motion Banking of tracks			operators and their precedence. **Introducing conditional statement** **if elif else** Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow Patterns in python Factorial of a number **Introduction to Loops**		

AUG								
Prose- The Silk road Activity- Travel brochure Poem-- Childhood Reading comprehension-	Trigonometric functions Activity: Presentation on trigonometric functions in Jantar Mantar Limits and derivatives Activity: Derivating song	Work-energy power Work energy theorem Work Kinetic energy Work done by variable force Potential energy Power Collisions Systems of particles and rotational motion Practical Law of parallelogram, friction, Activity - To plot graph as per given data Centre of mass Motion of Centre of mass Vector product of two vectors Angular velocity and linear velocity Torque and angular momentum Equilibrium of a rigid body	Unit 2 structure of atom..(contd) Unit 7:Redox reactions Research on the applications of different types of cells PRACTICALS – SALT ANALYSIS	Plant kingdom (to be continued) Animal Kingdom Photosynthesis in higher plants C3 and C4 plants Photorespiration	**Loops continued** Iterative Statement: for loop, range(), while loop break and continue statements, nested loops, suggested programs: -generating pattern, -summation of series, -finding the factorial of a positive number, etc. **STRINGS** Traversal, operations – concatenation, repetition, membership; functions/ methods, String slicing **LIST** introduction, indexing, list	Consumers Equilibrium- Single Commodity Double Commodity Indifference Curve Analysis Activity-The Candy Shop Game Supply Cost Activity: Supply Scavenger Hunt	Sensory, Attentional and Perceptual Processes Activity: "Optical Illusion Gallery" – Display and discuss famous visual illusions and how perception can differ from reality. PRACTICAL - Span of Attention

			Moment of inertia Dynamics of rotational motion about a fixed axis			operations (concatenation, repetition, membership and slicing), traversing a list using loops, built-in functions/ methods nested lists,		
SEP	TERM I EXAM	TERM I EXAM	● Gravitation ● Kepler's laws ● TERM I EXAM ● Universal law of gravitation ● Acceleration due to gravity and its variation ● Gravitational potential energy ● Escape speed ● Earth satellite	**Unit 4 Chemical Bonding and Molecular structure** **Activity – model making - VSEPR structures** PRACTICALS – SALT ANALYSIS (anions) HY exams	Photosynthesis (to be continued)	Flow charts Term 1 Exam	TERM I EXAM	Term 1 Exams
OCT	Prose-Adventure Activity- Debate on the possibilities and consequences of time travel.	Straight lines Conic sections Activity: understanding different sections of a cone through models of cone.	Properties of solids Elastic behaviour of solids Stress and strain Stress strain curve Elastic moduli	**Unit 4 Chemical Bonding and Molecular structure (contd)** PRACTICALS – SALT ANALYSIS(cation	Respiration in plants Glycolysis Kreb Cycle ETC Plant growth and development	**DICTIONARIES** Definition, Creation, Accessing elements of a dictionary, add an item, modify an item in a dictionary;	Production Function Revenue Producer's Equilibrium	Learning Activity: "Conditioning Demonstration" – In-class demo of classical/operan

	Birth Activity: Panel Discussion-A panel discussion on the importance of compassion and professionalism in healthcare. Poem-Father to son Integrated Grammar Gap Filling/Editing/Omission		Application of elastic behaviour of materials Properties of fluids Practical Simple pendulum, Activity Principle of moments, paper bridge Surface tension Pressure Streamline flow Application of surface tension Bernoulli's principle Viscosity Reynolds number Surface tension	s)		Traversal, **functions/methods –** len(), dict(), keys(), values(), items(), get(), update(), del(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted() copy(); **FUNCTION** IN PYTHON	Activity-Graphic organizer on types of cost	t conditioning using simple examples (like a bell and response task). PRACTICAL - Meaningfulness of words and its impact on Learning
NOV	Prose- Mother's Day Activity- Role Play Writing Skill-Advertisements	Sequence and series Permutation and combinations Activity: Hangman game	Oscillations Practical Terminal velocity, sonometer Periodic motion Simple harmonic motion	**Unit 8** Organic chemistry-Some basic principles and techniques **Unit9** Hydrocarbons PRACTICALS – SALT ANALYSIS(cation	Breathing and exchange of gases Body fluids and their movement Excretory products and their elimination	**Tuples** Definition, Creation of a Tuple, Traversal of a tuple. Operations on a tuple - concatenation, repetition, membership; function	Correlation Index Numbers Activity-Role Play	Human Memory Activity: "Memory Test Challenge" – Conduct fun memory games (e.g., remembering a list of words) and discuss

	Revision		Simple harmonic motion and uniform circular motion Velocity and acceleration in simple harmonic motion Force law of simple harmonic motion Energy in simple harmonic motion Some systems executing SHM Damped simple harmonic motion. Forced oscillations and resonance	s)		Nested tuple; Tuple slicing; finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple. **Python modules- functions and libraries** **Searching Techniques** Linear Search		factors affecting recall.
DEC	Poem The Tale of melon city Activity: Satirical Writing-Students write a short	Probability Matrices (XII)	Waves Transverse and longitudinal waves	<u>Unit 9</u> Hydrocarbons (contd) Unit 6 Equilibrium PRACTICALS – SALT	Locomotion and movement Neural control and coordination Chemical control and coordination	DIGITAL FOOTPRINTS DIGITAL PROTECTION CYBER CRIME	Forms of Market and Price Determination under perfect competition with simple applications	Thinking Activity: "Problem Solving Task" – Students solve puzzles or logic problems and

	satirical poem or story highlighting modern societal or political issues. Grade 12 - The Last Lesson - My Mother at 66		Displacement relation in a progressive wave Speed of a travelling wave Principle of superposition of waves Interference of waves Reflection of waves, standing waves, Oscillation of a string, open and closed pipe	ANALYSIS(cations) Volumetric -quantitative analysis		CYBER SAFETYE WASTE MANAGEMENT TECHNOLOGY AND SOCIETY PROJECTS INTRODUCTION TO MYSQL	Activity-Comic strip on a different types of market	reflect on the strategies used.. Motivation and Emotion Activity: "Emotion Journal" – Maintain a journal for a week noting down daily emotions and the situations that triggered them.
JAN		Determinants(XII)	Revision	Unit 5 Thermodynamics Practical exams	Reproductive Health (Class XII)	Revision MySQL (Class XII)	India on the eve of Independence(XII)	Revision and Practice
FEB	FINAL EXAMS	FINAL EXAMS	FINAL EXAMS	FINAL EXAMS	FINAL EXAMS	FINAL EXAMS	FINAL EXAMS	Final Exams