



TAGORE INTERNATIONAL SCHOOL
VASANT VIHAR, NEW DELHI
SYLLABUS (2024-25)
CLASS XI C & D

MONTH	ENGLISH	MATHEMATICS	PHYSICS	CHEMISTRY	BIOLOGY	COMPUTER SCIENCE	ECONOMICS	PSYCHOLOGY
APR	Prose-The Portrait of a lady Poem-A photograph Writing Skill-Poster Unseen Comprehension Passage Activity- Art Integration -Thank you card for grandparents	Sets Complex Numbers Activity: To verify distributive law for three given non-empty sets A, B and C To distinguish between various Indian art forms using Sets and venn diagrams.	Motion in a straight line Scalar and vectors Path length and displacement Average velocity and average speed Acceleration Kinematic equations for motion Graph for one dimensional motion	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	Living World Biological classification Plant Kingdom Practical: Observing the slides of Bacteria, Oscillatoria, Spirogyra; specimens of Mushroom, moss, fern.	CSO IPO, Storage Units, Mobile System Organization, Types of memories Hardware, Software, Firmware, Liveware Types of software- <ul style="list-style-type: none"> ● System software ● Application softwares ● Language processors ● utilities 	Introduction to Microeconomics Activity-Flow chart of micro and macro variables	What is Psychology? Activity-Preparing the career options & scope of psychology

						NUMBER SYSTEM Numbers in base 2, 8, 16 and binary addition		
MAY	<p>Prose-The Summer of the beautiful white horse</p> <p>-The Address</p> <p>Poem</p> <p>-The laburnum Top</p> <p>Writing Skill-Speech</p> <p>Activity- PPT and presentation on any one indigenous tribe of India.</p>	<p>Complex Numbers(contd.)</p> <p>Linear Inequalities</p> <p>Sequences and Series</p> <p>Activity: To demonstrate that the Arithmetic mean of two different positive numbers is always greater than the Geometric</p>	<p>Unit and measurement</p> <p>System of units</p> <p>Measurement of length</p> <p>Accuracy, precision</p> <p>Significant figures</p> <p>Errors in measurement,</p> <p>Dimensions</p> <p>Dimensional analysis and its application</p>	<p>MoleConcept</p> <p>LimitingReagent</p> <p>Stoichiometry</p>	<p>Animal Kingdom</p> <p>Morphology of flowering plants</p> <p>Practical: Study the plants of some common families.</p> <p>Study different types of inflorescence (cymose and racemose).</p>	<p>BOOLEAN ALGEBRA</p> <p>Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuit</p> <p>BASIC PYTHON</p> <p>-Basics of Python programming: a 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.</p>	<p>Consumer's Equilibrium and Demand</p> <p>Activity-Scarcity Activity</p>	<p>Methods of Enquiry in Psychology</p> <p>Activity- Making a questionnaire</p> <p>Collecting data through personal interviews, questionnaires, & telephonic surveys</p>

						introducing conditional statement if elif else		
JUL	Prose- -We are not afraid to die -Discovering Tut Poem—The voice of rain Writing Skill-Debate Activity-Speaking skills	Relations and Functions Trigonometric Functions To verify that for two sets A and B, $n(A \times B) = pq$ and the total number of relations from A to B is 2^{pq} , where $n(A) = p$ and $n(B) = q$ (ACTIVITY) To distinguish between a Relation and a Function (ACTIVITY)	Motion in a plane Properties of vectors Addition and subtraction of vectors Resolution of vectors Motion in a plane Relative velocity Projectile motion Uniform circular motion Laws of motion Practical Vernier callipers, Screw gauge, Activity of paper scale	Unit 3 Classification of elements and periodicity in properties <ul style="list-style-type: none"> Trends of properties Graphical representation Unit 2 structure of atom.. Practical: crystal preparation	Anatomy of Flowering plants Structural organisation in animals Cell: Structure and function Cell Cycle Practical: Preparation and study T.S. of dicot/monocot stem and root.	Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow Patterns in python Factorial of a number	Introduction Collection, Organisation and Presentation of Data Activity-Class activity to collate data and present it as a diagram.	Human Development Activity-Observe a toddler and write down your observations & discuss them in class. Make a list of challenges faced by adolescents. Sensory, Attentional, and Perceptual Processes Activity-Miller's Law Experiment (Practical)

			<p>Newton's laws of motion</p> <p>Equilibrium of a particle</p> <p>Friction</p> <p>circular motion</p> <p>Banking of tracks</p>					
AUG	<p>Prose-The Silk Road</p> <p>Poem-- Childhood</p> <p>Writing Skill/ Reading comprehension- Note making</p> <p>Activity- Listening skills</p>	<p>Straight lines</p> <p>Conic Sections</p> <p>An alternative method of constructing a parabola. (ACTIVITY)</p>	<p>Work-energy power</p> <p>Work energy theorem</p> <p>Work</p> <p>Kinetic energy</p> <p>Work done by variable force</p> <p>Potential energy</p> <p>Power</p> <p>Collisions</p> <p>Systems of particles and rotational motion</p> <p>Practical</p> <p>Law of parallelogram, friction,</p> <p>Activity - To plot graph as per given data</p> <p>Centre of mass</p>	<p>Unit 2 structure of atom..(contd)</p> <p>Unit 7:Redox reactions</p> <p>Research on the applications of different types of cells</p> <p>PRACTICALS – SALT ANALYSIS</p>	<p>Cell Division</p> <p>Biomolecules</p> <p>Photosynthesis in Higher Plants</p> <p>Practical:</p> <p>Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.</p> <p>Separation of plant pigments through paper</p>	<p>STRINGS</p> <p>LIST</p> <p>TUPLES</p>	<p>Mean, median and Mode</p> <p>Supply</p> <p>Activity: Supply Scavenger Hunt</p>	<p>Learning</p> <p>Activity- Movie Analysis and discussing different types of learning in the movie.</p> <p>Practical- Verbal Learning</p>

			<p>Motion of Centre of mass Vector product of two vectors Angular velocity and linear velocity Torque and angular momentum Equilibrium of a rigid body Moment of inertia Dynamics of rotational motion about a fixed axis</p>		chromatography.			
SEP	Term 1 Exam	Term 1 Exam	<p>Gravitation</p> <p>Kepler's laws TERM I EXAM Universal law of gravitation</p> <p>Acceleration due to gravity and its variation</p> <p>Gravitational potential energy</p> <p>Escape speed</p> <p>Earth satellite</p>	<p>Unit 4 Chemical Bonding and Molecular structure</p> <p>Activity – model making - VSEPR structures</p> <p>PRACTICALS – SALT ANALYSIS (anions) HY exams</p>	<p>Respiration in Plants</p> <p>Plant Growth and development</p> <p>Revision for Mid-term</p>	<p>DICTIONARIES</p> <p>FUNCTION IN PYTHON HOW TO CREATE A FUNCTION</p> <p>Python modules</p>	Term 1 Exam	Term 1 Exam

<p>OCT</p>	<p>Prose-Adventure -Birth</p> <p>Poem-Father to son</p> <p>Integrated Grammar Gap Filling/Editing/Omission</p> <p>Activity- Poster on International Day of Care and Support-29 October, highlighting the role of doctors and caregivers and paying a tribute to them.</p>	<p>Limits and Derivatives</p> <p>(ACTIVITY)</p> <p>1)To find analytically</p> $\lim_{x \rightarrow c} \frac{x^2 - c^2}{x - c}$ <p>2) To verify the geometrical interpretation of Derivatives</p>	<p>Properties of solids</p> <p>Elastic behaviour of solids</p> <p>Stress and strain</p> <p>Stress strain curve</p> <p>Elastic moduli</p> <p>Application of elastic behaviour of materials</p> <p>Properties of fluids</p> <p>Practical Simple pendulum, Activity Principle of moments, paper bridge Surface tension</p> <p>Pressure</p> <p>Streamline flow</p> <p>Application of surface tension</p>	<p>Unit 4 Chemical Bonding and Molecular structure (contd)</p> <p>PRACTICALS – SALT ANALYSIS(cations)</p>	<p>Breathing and exchange of gases</p> <p>Body Fluids and Circulation</p> <p>Practical:</p> <p>Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.</p>	<p>DIGITAL FOOTPRINTS</p> <p>DIGITAL PROTECTION</p> <p>CYBER CRIME</p> <p>CYBER SAFETY</p>	<p>Producer Behaviour</p> <p>Cost</p> <p>Revenue</p> <p>Producer's Equilibrium</p> <p>Activity-Graphic organizer on types of cost</p>	<p>Memory</p> <p>Activity-Memorization of concepts and recalling the same after 5 mins, 5 days, and 10 days. Discussion of the results.</p>
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			Bernoulli's principle Viscosity Reynolds number Surface tension					
NOV	Prose- -Mother's Day Writing Skill-Advertisements Revision Activity- Role play	Permutations and Combinations Probability 1)To write the sample space, when a coin is tossed once, two times, three times and four times. 2)To write the sample space, when a die is rolled once, twice, three and four times.	Oscillations Practical Terminal velocity, sonometer Periodic motion Simple harmonic motion Simple harmonic motion and uniform circular motion Velocity and acceleration in simple harmonic motion Force law of simple harmonic motion	Unit 8 Organic chemistry-Some basic principles and techniques Unit9 Hydrocarbons PRACTICALS – SALT ANALYSIS(cations)	Excretory Products and their Elimination Locomotion and Movement Neural Control Practical: Study human skeleton and different types of joints with the help of virtual images/models only.	E WASTE MANAGEMENT TECHNOLOGY AND SOCIETY	Correlation Index Numbers Activity-Role Play	Thinking Activity-Think and analyze a case where a child does not recognize his name, doesn't respond to the teacher, seems in his world, and is comfortable in class. Share your thoughts.

			<p>Energy in simple harmonic motion</p> <p>Some systems executing SHM</p> <p>Damped simple harmonic motion.</p> <p>Forced oscillations and resonance</p>					
DEC	<p>Poem - The Tale of melon city Grade 12 - The last lesson -My mother at sixty six</p>	<p>Binomial Theorem</p> <p>(ACTIVITY) To construct a Pascal's Triangle and to write binomial expansion for a given positive integral exponent.</p> <p>Matrices (CLASS XII)</p>	<p>Waves</p> <p>Transverse and longitudinal waves</p> <p>Displacement relation in a progressive wave</p> <p>Speed of a travelling wave</p> <p>Principle of superposition of waves</p> <p>Interference of waves</p>	<p>Unit 9</p> <p>Hydrocarbons (contd)</p> <p>Unit 6 Equilibrium PRACTICALS – SALT ANALYSIS(cations)</p> <p>Volumetric -quantitative analysis</p>	Chemical control and Coordination	INTRODUCTION TO MYSQL	<p>Forms of Market and Price Determination under perfect competition with simple applications</p> <p>Activity-Comic strip on a different types of market</p>	<p>Motivation and Emotion</p> <p>Activity- List down the top 5 motivators in your life.</p> <p>Share your experiences of tough & difficult situations.</p>

