





TAGORE INTERNATIONAL SCHOOL
VASANT VIHAR, NEW DELHI
SYLLABUS (2026-27)
CLASS XI C & D

MONT H	ENGLISH	MATHEMATICS	PHYSICS	CHEMISTRY	BIOLOGY	COMPUTER SCIENCE	ECONOMICS	PSYCHOLOGY
April	<p>Prose-The Portrait of a lady Poem-A photograph</p> <p>Writing Skill-Poster Unseen Comprehension Passage Activity- Thank You card for grandparents</p>	<p>Sets</p> <p>Activity: Bring out the similarities and differences in the three art forms: Madhubani, phad, pattachitra using the venn-diagram concept of three sets.</p>	<p>Unit and measurement Fundamental and derived units, significant figures, Dimension analysis.</p> <p>Motion in a straight line Path length and displacement, Average velocity and average speed, Acceleration.</p>	<p>Unit 1 -BASIC CONCEPTS IN CHEMISTRY Matter(Identification and Classification SI unit and measurement Laws of Chemical Combination</p> <p>Art integration– poster on chemistry and alchemy</p>	<p>* Morphology of Flowering Plants</p> <p>* Anatomy of Flowering Plants</p> <p>Practicals</p> <ul style="list-style-type: none"> Parts of a compound microscope. Study and describe locally available common flowering plants, from family 	<p>CSO IPO, Storage Units, Mobile System Organization, Types of memories</p> <p>Hardware, Software, Firmware, Liveware</p> <p>Types of software-</p> <ul style="list-style-type: none"> System software Application softwares 	<p>Statistics for Economics</p> <p>Chapter 1 Introduction to Statistics</p> <p>Micro Economics</p> <p>Chapter 1 Introduction to Economics</p>	<p>Topics:</p> <p>Understanding Psychology -</p> <p>Understanding Mind and Behaviour, Evolution of Psychology, Branches of Psychology, Psychology and Other Disciplines</p> <p>Activity:</p> <p>Identify psychological processes in daily life</p>

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			<p>Activity: Make a paper scale of a given least count.</p> <p>Art integration using ICT: Online game to test accuracy and precision.</p>  <p>http://ggg.guolaiwanba.net/minigame/pgdyh/?from=groupmessage&isappinstalled=0</p>	<p>Activity- playing for purpose – precision and accuracy</p>	<p>Solanaceae including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious) ; type of stem (herbaceous and woody); leaf (arrangement shape, venation, simple and compound)</p> <ul style="list-style-type: none"> • Types of inflorescenc 	<ul style="list-style-type: none"> • Language processors • utilities <p>NUMBER SYSTEM Numbers in base 2, 8, 16 and binary addition</p>		


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					e (cymose and racemose).			
May	<p>Prose-The Summer of the beautiful white horse The Address</p> <p>Poem The laburnum Top Writing Skill-Speech Activity- Calligram</p>	<p>Complex numbers</p> <p>Linear Inequalities</p> <p>Activity: Using desmos graphing calculator, plot linear inequality number line on graphs</p>	<p>Motion in a straight line Kinematic equations, Graphs for one dimensional motion, Relative velocity, Free fall motion.</p> <p>Motion in a plane Scalars and vectors, Properties of vectors, vector addition, Resolution of vectors, Scalar and Vector product.</p> <p>Activity: Plot a graph for a given set of data, with proper</p>	<p>MoleConcept LimitingReagent Stoichiometry</p> <p>Practical- preparation of crystals of alum</p> <p>Introduction to periodic table</p> <p>Activity– making of periodic cube</p>	<p>* Structural organization in animals</p> <p>* Cell: The Unit of Life</p> <p>* Cell Cycle and Cell Division</p> <p>Practicals</p> <ul style="list-style-type: none"> Mitosis in onion root tip cells and animal's cells (grasshopper) from permanent slides. Study of osmosis by potato osmometer. Study of plasmolysis 	<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 -Basics of Python programming: a simple "hello world" program, the process of writing a program (Interactive & Script mode), running it and</p>	<p>Statistics for Economics</p> <p>Chapter 2 Collection of data</p> <p>Chapter 3 Organization of data</p>	<p>Topics:</p> <p>Methods of Enquiry in Psychology -</p> <p>Goals of Psychological Enquiry, Nature of Data, Methods in Psychology, Analysis of Data, Limitations of Enquiry, Ethical Issues</p> <p>Activity:</p> <p>Conduct a small survey in class</p>

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			<p>choice of scales and error bars.</p> <p>Art integration: Poetry on "Journey vs Destination" (distance vs displacement)</p>		<p>in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).</p>	<p>print statements; simple data-types: integer, float and string.</p>		
July	<p>Prose-We're not afraid...</p> <p>Discovering Tut</p> <p>Poem –Voice of rain</p> <p>Writing Skill-Debate Activity- A dialogue with rain</p>	<p>Relations and functions</p> <p>Trigonometric functions</p> <p>Activity: Presenting types of functions using different dance forms</p>	<p>Motion in a plane</p> <p>Projectile motion and uniform circular motion.</p> <p>Laws Of Motion</p> <p>Newton's laws of motion, Law of conservation of linear momentum, Equilibrium of concurrent forces, Friction,</p>	<p>Unit 3</p> <p>Classification of elements and periodicity in properties</p> <ul style="list-style-type: none"> Trends of properties Graphical representation <p>Unit 2 structure of atom..</p>	<p>* Biomolecules</p> <p>* The Living World</p> <p>* Biological Classification</p> <p>Practicals</p> <ul style="list-style-type: none"> Test for the presence of sugar, starch, proteins and fats in suitable plant and 	<p>Computational Thinking</p> <ul style="list-style-type: none"> 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 	<p>Statistics for Economics</p> <p>Chapter 4 Tabular Presentation of data</p> <p>Chapter 5 Diagrammatic Presentation of Data</p> <p>Chapter 6 Graphic Presentation of</p>	<p>Topics:</p> <p>Human Development -</p> <p>Meaning of Development, Life-span perspective, Context of Development, Stages of Development</p> <p>Activity:</p> <p>Interview a</p>

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			<p>Circular motion, Banking of road, Centripetal force.</p> <p>Practical: 1.) Vernier Callipers experiment. 2.) Screw gauge experiment.</p> <p>Art integration: NBA Basketball Board Game: Projectile motion</p> 	<p>Practical: crystal preparation</p> <p>Art integration–preparing rakhi in atomic form</p>	<p>animal materials.</p> <ul style="list-style-type: none"> • Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen. 	<p>R-value even if not taught explicitly).</p> <ul style="list-style-type: none"> • data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence. <p>Introducing conditional statement</p> <p>if elif else</p> <p>Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow</p> <p>Patterns in python</p> <p>Factorial of a number</p>	<p>Data</p>	<p>parent/grandparent about developmental changes</p>

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						Introduction to Loops		
Augu st	<p>Prose- The Silk road Poem-- Childhood</p> <p>Writing Skill/ Reading comprehension- Note making Activity- Depiction of silk road using active sand</p>	<p>Limits and derivatives</p> <p>Sequence and series</p> <p>Activity: Derivating song</p>	<p>Work, Energy and Power Work done by a constant and a variable force; kinetic energy, work- energy theorem, power, potential energy of a spring, conservative and non - conservative forces, elastic and inelastic collisions.</p> <p>Gravitation Law of gravitation, Kepler's laws, Acceleration due to gravity and its variation,</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>Activity- set up of an electrochemical cell</p> <p>PRACTICALS – SALT ANALYSIS- detection of cation and anion in the given sample</p>	<p>* Plant Kingdom</p> <p>* Animal Kingdom</p> <p>* Photosynthesis in Higher Plants</p> <p>Practicals</p> <ul style="list-style-type: none"> Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, 	<p>Loops continued Iterative Statement: for loop, range(), while loop</p> <p>break and continue statements, nested loops, suggested programs: -generating pattern, -summation of series, -finding the factorial of a positive number, etc.</p> <p>STRINGS Traversal, operations –</p>	<p>Micro Economics Chapter 2 Consumer Equilibrium Chapter 3 Demand Chapter 4 Elasticity of demand</p>	<p>Topics:</p> <p>Sensory, Attentional and Perceptual Processes -</p> <p>Sense Modalities, Attentional Processes, Perceptual Processes, Principles of Perceptual Organisation, Illusions</p> <p>Activity:</p> <p>Attention Experiment - Test selective attention using tasks</p>

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			<p>Gravitational potential energy and potential, Escape and orbital speed, Energy of a satellite.</p> <p>Practical: 1.) Weight of a given body using parallelogram law of vectors.</p> <p>2.) Coefficient of friction between a block and a horizontal surface.</p> <p>Art Integration: Gravity Powered String Art Pendulum.</p>		<p>snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.</p> <ul style="list-style-type: none"> ● Separation of plant pigments through paper chromatography. ● Preparation and study of T.S. of dicot roots and stems (primary). 	<p>concatenation, repetition, membership; functions/ methods, String slicing</p> <p>LIST introduction, indexing, list operations (concatenation, repetition, membership and slicing), traversing a list using loops, built-in functions/ methods nested lists,</p>		

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			 https://learningmole.com/pendulum-painting/					
Sept mber	Revision	TERM I EXAM	Revision System of Particles and Rotational Motion Angular velocity and linear velocity, Torque and angular momentum, Equilibrium of a rigid body, Moment of inertia.	Unit 4 Chemical Bonding and Molecular structure Activity – model making - VSEPR structures PRACTICALS – SALT ANALYSIS (anions) HY exams	* Respiration in Plants Practicals <ul style="list-style-type: none"> ● Study of distribution of stomata on the upper and lower surfaces of leaves. ● Study of the rate of respiration in flower buds/leaf tissue and germinating seeds. 	Flow charts Term 1 Exam	Mid Term Exams Micro Economics Chapter 5 Production	Revision for Mid-term exams

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					<ul style="list-style-type: none"> Comparative study of the rates of transpiration in the upper and lower surfaces of leaves. 			
October	Prose-Birth Poem-Father to son Integrated Grammar Gap Filling/Editing/Omission	Straight lines Activity: Identify lines with positive and negative slope in Kolam rangoli art form.	Mechanical Properties of Solids Elasticity, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity, Poisson's ratio; elastic energy. Mechanical Properties of Fluids Pressure on fluid, Pascal's law and its applications. Viscosity, Stokes' law, terminal velocity, streamline and	Unit 4 Chemical Bonding and Molecular structure (contd) PRACTICALS – SALT ANALYSIS(cations)	* Plant Growth and Development * Breathing and Exchange of Gases	DICTIONARIES Definition, Creation, Accessing elements of a dictionary, add an item, modify an item in a dictionary; Traversal, functions/methods – len(), dict(), keys(), values(), items(), get(), update(), del(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(),	Micro Economics Chapter 6 Cost Chapter 7 Revenue Chapter 8 Producer's Equilibrium	Topics: Learning, Human Memory Activity: Practical

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			turbulent flow, critical velocity, Bernoulli's theorem and its applications. Practical: 1.) Effective length of second's pendulum. 2.) Force constant of a helical spring. Origami Activity: Paper Spring Compare extension with applied force qualitatively.			count(), sorted() copy(); FUNCTION IN PYTHON		
Nov ember	Prose- Mother's Day Writing Skill-Advertisem ents	Conic sections Activity: understanding different sections of a cone	Mechanical Properties of Fluids Surface energy and surface tension, angle of	Unit 8 Organic chemistry-Some basic principles and techniques	Body Fluids and Circulation Practicals: <ul style="list-style-type: none"> ● Test for 	Tuples Definition, Creation of a Tuple, Traversal of a tuple. Operations on a	Statistics for Economics Chapter Mean Chapter Median and Mode Micro	Topics: Human Memory; Thinking

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	<p>Revision Activity- Role play</p>	<p>through models of cone.</p> <p>Permutation and combinations</p> <p>Activity: Hangman game</p>	<p>contact, excess of pressure across a curved surface.</p> <p>Oscillations Periodic motion - time period, frequency, displacement. Simple harmonic motion, uniform circular motion and its equations of motion, phase.</p> <p>Practical: Coefficient of viscosity of a given viscous liquid.</p> <p>Hands-on Experiential Activity: Make your own water fountain using old bottles.</p>	<p>Unit9 Hydrocarbons</p> <p>PRACTICALS – SALT ANALYSIS(cations)</p>	<p>presence of urea, sugar, albumin, bile salts in urine.</p>	<p>tuple - concatenation, repetition, membership; function</p> <p>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.</p> <p>Python modules- functions and libraries</p> <p>Searching Techniques Linear Search</p>	<p>Economics Chapter 9 Supply Chapter 10 Main Market Forms Chapter 11 Simple applications of demand and Supply</p>	

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Decem ber	Poem The Tale of melon city Grade 12- The Last Lesson My Mother at 66	Probability Matrices (XII)	Oscillations Oscillations of a loaded spring and simple pendulum, S.H.M.- Kinetic and potential energies. Waves Transverse and longitudinal waves, speed of travelling wave, progressive wave, principle of superposition of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats. Theremin : A musical instrument that you can play	Unit 9 Hydrocarbons (contd) Unit 6 Equilibrium PRACTICALS – Volumetric -quantitative analysis	* Locomotion and Movement Practicals: ● Human skeleton and different types of joints with the help of virtual images/models only.	Digital Footprints Digital Protection Cyber Crime Cyber Safety Waste Management Technology And Society Projects Introduction To Mysql	Statistics for Economics Chapter Correlation Chapter Index Numbers Macro Economics Money and Banking	Topics: Motivation and Emotion

