



TAGORE INTERNATIONAL SCHOOL
EAST OF KAILASH, NEW DELHI

PARENT SYLLABUS

Class XI 2023 -2024

Science

MONTH	English	Math	Physics	Chemistry	Biology	Computer science	Economics	Psychology	Ped.
April and May	<p><u>April</u></p> <p>Prose: The Portrait of a Lady</p> <p>Writing Skills: Poster Making</p> <p>Art Integrated Activity: Preparing a nutritious diet chart for elder people of the family</p> <p>Values: -compassion -empathy -respect and love for elderly</p> <p>Life Skills: -Self- awareness -coping with emotions</p> <p>General Awareness: human emotions</p> <p>Sewa: taking care of grandparents</p>	<p><u>April</u></p> <p>Topic: *Sets</p> <p>Sub topics: - Representation of sets(Roster and set builder form) - Types of sets - Subsets - Universal sets - Venn diagrams - Operations on sets (Union and intersection of sets) - Difference of sets - Complement of a set</p> <p>Topic: * Linear Inequalities</p> <p>Sub topics: - Introduction of inequations - Algebraic solution of Linear Inequalities in one</p>	<p><u>April</u></p> <p>Topic: Units and Measurements</p> <p>Sub Topics: Need for measurement- Units of measurement</p> <p>Systems of units; SI units</p> <p>Fundamental and derived units</p> <p>Dimensions of physical quantities, dimensional analysis and its applications</p> <p>Lab Activity: To measure diameter of a small spherical/cylindrical body using Vernier Calipers.</p>	<p><u>April</u></p> <p>Topic: Some Basic Concepts of Chemistry</p> <p>Sub Topics: -Importance of chemistry -Nature, Properties and classification of matter - Precision, accuracy, significant figures -Atomic and molecular masses -Laws of Chemical Combination and numerical -Mole concept</p> <p>Lab Activity: (Volumetric Analysis) -Instructions and experiment demonstration for Volumetric analysis</p>	<p><u>April</u></p> <p>Topic: The Living World</p> <p>Subtopic: -Diversity in the living world - Taxonomic categories</p> <p>Topic: Biological Classification</p> <p>Subtopics: -Kingdom Monera -Kingdom Protista -Kingdom Fungi -Kingdom Plantae -Kingdom Animalia -Viruses, Viroids, Prions and lichens</p> <p>Activity -Parts of a compound microscope</p> <p>Art integration- Video Presentation/ Power Point</p>	<p><u>April</u></p> <p>Unit I: Computer Systems and Organisation</p> <p>● Basic Computer Organisation: Introduction to computer system, hardware,software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (Bit, Byte, KB, MB, GB, TB, PB)</p> <p>● Types of software: system software (operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler & interpreter), application</p>	<p><u>April</u></p> <p>Unit 1- Meaning of micro macro economics, positive and normative economics, economic problems, central problems</p> <p>May Concept of PPC, Consumers' equilibrium and demand- Consumer's equilibrium by utility analysis and indifference curve analysis. Demand and elasticity of demand</p>	<p><u>April</u></p> <p>Chapter 1: What is Psychology?</p> <p>-Psychology as a Discipline</p> <p>-Psychology as a Natural Science</p> <p>-Psychology as a Social Science</p> <p>- Understanding Mind and Behaviour</p> <p>-Popular Notions about the Discipline of Psychology</p> <p>-Evolution of Psychology</p>	<p><u>April</u></p> <p>Unit II Olympism Ancient and Modern Olympics</p> <p>Olympism – Concept and Olympics Values (Excellence, Friendship & Respect)</p> <p>Olympics - Symbols, Motto, Flag, Oath, and Anthem</p> <p>Olympic Movement Structure - IOC, NOC, IFS, Other members</p> <p>Unit III Yoga</p> <p>Meaning & Importance of Yoga</p>

<p>Health and Wellness: emotional balance</p> <p>Gender sensitivity: respect for grandmothers</p> <p><u>MAY</u></p> <p>Poem: A Photograph</p> <p>Art integrated Activity: -showing a photograph of one's own and sharing the details of the memory it brings Back in poetic/prose form</p> <p>Prose: The Summer of the Beautiful White Horse</p> <p>Writing Skills: Speech Writing</p> <p>Life Skills: coping with emotions</p> <p>Values: compassion, empathy, respect</p> <p>General Awareness:</p>	<p>variable and their graphical representation</p> <p><u>May</u> Topic: * Complex Numbers and Quadratic Equations</p> <p>Sub topics: - Introduction - Need of complex numbers - Algebraic properties of complex numbers - Argand Plane</p> <p>* Probability</p> <p>Sub topics: - Random experiment - Sample space - Events - Types of events (Impossible and sure events, simple event, compound event) - Algebra of events (Complementary event, Event A or B, Event A and B, Event A but not B)</p>	<p>Life Skill: Teamwork and Collaboration</p> <p>Value: Appreciation for differences</p> <p>Gender Sensitivity: Gender Equality</p> <p>Health and Wellness: Importance of healthy diet</p> <p><u>MAY</u></p> <p>Topic: Motion In A Straight Line</p> <p>Sub Topics: Rest and Motion</p> <p>Graphical Representations</p> <p>Derivations</p>	<p>-Determine the strength of the given NaOH solution by titrating it against M/10 HCl solution.</p> <p>Life Skill: Problem solving, Critical Thinking</p> <p>Value: Fostering respect for differences, Team work, Discipline</p> <p>Gender sensitivity: Gender and education</p> <p>Health and wellness: Time management</p> <p><u>MAY</u></p> <p>Topic: Some Basic Concepts of Chemistry contd...</p> <p>Subtopics:</p>	<p>Presentation -Students in groups will make a video presentation or a power point presentation on different kingdoms/ groups and present the same in the class</p> <p>Topic: -Plant Kingdom Subtopics: -Algae -Bryophytes Activity -Specimens/ slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.</p> <p>Life Skill: Healthy relationships</p> <p>Value:</p>	<p>software</p> <ul style="list-style-type: none"> Operating system (OS): functions of operating system, OS user interface <p>Values- Collaboration and Team Spirit</p> <p>Gender Sensitivity- Right to equality</p> <p>Health & wellness:- Right posture in front of Computer</p> <p>Life Skills- Problem Solving Skills, Decision-making skills, Critical Thinking</p> <p>Activity: Flowcharts</p> <p><u>MAY</u></p> <ul style="list-style-type: none"> Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits Number system: Binary, Octal, Decimal and Hexadecimal 	<p>values- Acceptance of consumption goods available to us.</p> <p>life skills- Decision making</p> <p>gender sensitivity- Achieving balanced participation for consumption items at home.</p> <p>health and wellness- Emotional balance behaviour.</p> <p><u>MAY</u></p> <p>Chapter 1: What is Psychology?</p> <p>-Branches of Psychology</p> <p>-Themes of Research and Applications</p> <p>-Psychology and Other</p>	<p>-Development of Psychology in India</p> <p>Health and Wellness: Mental health</p> <p>Values: Acceptance</p> <p>LS: Self awareness</p> <p>Gender sensitivity: Contribution of women in the field of psychology.</p>	<p>Introduction to Ashtanga Yoga</p> <p>Introduction to Yogic Kriyas (Shat Karma)</p>
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<p>integral role played by mothers in the shaping of families, Health and wellness: mental health Sewa: care for the elderly Gender sensitivity: role of the girl child in a family</p>	<p>- Mutually exclusive events - Exhaustive events</p> <p>Art Integration Activity:</p> <p>Students will apply their knowledge of plotting the graph of linear inequalities and showcase their creativity on the graph paper by shading the letters of their name.</p> <p>Activities:</p> <p>1) To verify that if a set has n number of elements ,then the total number of subsets is 2^n 2) To verify that the graph of a given inequality, say $5x+4y-40<0$ of the form $ax+by+c<0$ where $a, b >0, c<0$ represents only one of the two half planes. 3) To find the number of ways in</p>	<p>Lab Activity:</p> <p>To measure the internal diameter and depth of a given beaker/ calorimeter using Vernier Calipers and find its volume.</p> <p>To measure diameter of a given wire and thickness of a given sheet using screw gauge.</p> <p>Activity:</p> <p>To measure reaction time in free fall taking help of either sibling or parent and note the factors on which reaction time depends.</p> <p>Life Skill:</p> <p>Problem solving</p> <p>Value:</p> <p>Fostering Respect For Differences</p> <p>Gender sensitivity:</p>	<p>-Mole Concept- numerical</p> <p>-Empirical and molecular formula and masses, related numerical</p> <p>-Reactions in solutions (mass %age, molarity, molality, mole fraction) and related numerical</p> <p>-Limiting reagent, Stoichiometric calculations, related numerical</p> <p>Topic:</p> <p>Classification Of Elements and Periodicity in Properties</p> <p>Subtopics:</p> <p>-Need of classification- History of classification- Modern periodic law and the present long form of periodic table</p> <p>Lab Activity:</p>	<p>Responsibility Gender sensitivity: Awareness Health and Wellness: Social wellness</p> <p><u>MAY</u></p> <p>Topic: Plant Kingdom (contd.) Subtopics:</p> <p>-Pteridophytes -Gymnosperms</p> <p>Topic: Animal Kingdom Subtopics:</p> <p>-Basis of classification -Levels of organisation -Porifera -Coelenterata -Ctenophora -Platyhelminthes -Aschelminthes -Annelida -Arthropoda -Mollusca -Echinodermata -Hemichordata -Chordata</p> <p>Activity:</p>	<p>number system; conversion between number systems.</p> <p>● Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32)</p> <p>Values- Collaboration and Team Spirit Gender Sensitivity- Right to equality Health & wellness:- Right posture in front of Computer Life Skills- Problem Solving Skills, Decision-making skills, Critical Thinking Activity: Make Presentation on the topics shared on classroom (CSO)</p>	<p>Disciplines</p> <p>-Psychologists at Work Psychology in Everyday Life</p> <p>Chapter 2: Methods of Enquiry in Psychology Goals of Psychological Enquiry Steps in Conducting Scientific Research Alternative Paradigms of Research Nature of Psychological Data Some Important Methods in Psychology - Observational Method Experimental Method Some Important Methods in Psychology - Correlational Research</p>	
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	<p>which three cards can be selected from given 5 cards</p> <p>4) To write a sample space , when a coin is tossed once, twice, thrice and four times.</p> <p>Life Skill:Critical Thinking,Problem Solving</p> <p>Values- Responsibility</p> <p>Gender Sensitivity-</p> <p>Gender Equality awareness</p> <p>Health and Wellness- Emotional Balance</p> <p>General Awareness- Time management</p> <p>-Equity and Equality</p>	<p>Gender Equality</p> <p>Health and Wellness:</p> <p>Social and emotional support</p>	<p>Determine the strength of the given NaOH solution by titrating it against M/20 oxalic acid solution.</p> <p>Life Skill:</p> <p>Analytical Thinking and Problem solving</p> <p>Value:</p> <p>Fostering Respect For Differences</p> <p>Gender sensitivity:</p> <p>Gender Equality</p> <p>Health and wellness:</p> <p>Seasonal Diet</p>	<p>-Virtual specimens / slides/models and identifying features of Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.</p> <p>Life Skill</p> <p>Interpersonal relationship</p> <p>Value</p> <p>Kindness</p> <p>Gender Sensitivity</p> <p>Gender inequality</p> <p>Health and Wellness:</p> <p>Social and emotional support</p>			<p>- Survey Research</p> <p>- Psychological Testing</p> <p>- Case Study</p> <p>Activity: Project on the measurement of a psychological variable using the survey method</p> <p>Health and Wellness: Cognitive agility</p> <p>Value: Morality</p> <p>LS: Problem solving</p> <p>Gender sensitivity: Ethics and gender role</p>	
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