



TAGORE INTERNATIONAL SCHOOL
EAST OF KAILASH, NEW DELHI

Class XII
TERM II
PARENT SYLLABUS 2026 -2027
SCIENCE

Month	English	Physics	Math	Chemistry	Biology	Computer science	Economics	Psychology	P.Ed.
October	<p>Topic: Going Places by A.R. Barton</p> <p>Sub-Topic: •about the author •theme of adolescence •making connections between similar situations in different storylines/life experiences •accepting the realities of life and shedding away stubbornness.</p>	<p>Topic: Ray Optics :</p> <p>Subtopics: *Magnification, power of a lens, combination of thin lenses in contact *Refraction of light through a prism *Optical instruments: Microscopes – Simple and Compound *Astronomical telescopes (reflecting and refracting)</p> <p>Learning Outcomes:</p>	<p>Topic: Vectors Sub topic: *Definition *Difference btw Vector and scalar *Types of Vectors *Direction cosines/Ratio *Addition, Multiplication of Vector *Scalar dot product- *Vector product *Projection of a vector</p> <p>Learning Outcome Each child will be able to</p>	<p>Topic: d and f-Block Elements contd..</p> <p>Sub-Topics: General trends in properties of the first-row transition metals- ionic radii, colour, catalytic property, magnetic properties, interstitial comp, alloy formation.</p> <p>Preparation & properties of</p>	<p>Topic: Organisms and Populations</p> <p>Subtopic: Population Interactions</p> <p>Learning Outcomes Each student will be able to -list any four population interactions and give one example of each. -compare mutualism and commensalism.</p>	<p>Unit II: Computer Networks (6 PERIODS) • Mobile Telecommunication Technologies: 1G, 2G, 3G, 4G and 5G; Mobile processors; Electronic mail protocols such as SMTP, POP3, Protocols for Chat and Video Conferencing: VoIP, Wireless technologies such as Wi-Fi and</p>	<p>Balance of Payments and Foreign Exchange</p> <p>Subtopics: Meaning and components of BoP Current Account and Capital Account Disequilibrium in BoP Meaning of foreign exchange rate</p>	<p>Topic: Attitude and Social Cognition</p> <p>Subtopics: Nature and components of Attitude Formation and change of Attitude Prejudice, stereotypes and discrimination Social Cognition (schemas,</p>	<p>Revision for Pre Board Examination & Practice for CBSE Board Practical</p>

<p>Health and Wellness</p>	<p>•accept responsibility and devote ones attention to the expected duties</p> <p>Learning Outcome:</p> <ol style="list-style-type: none"> list down the differences between them that show up between Sophie and Jansie in the story describe the character and temperament of Sophie's father analyse why Sophie liked her brother Geoff more than any other person draft character sketches <p>Activity 1: Group Discussion: Fantasy and Reality.</p> <p>Activity 2: Art integrated</p>	<p>*Deduce the focal length of the combination of lenses *Apply the formulae to solve related numerical questions.</p> <p>*Draw a ray diagram to show refraction through a glass prism.</p> <p>*Deduce equation for its refractive index and solve related numerical questions.</p> <p>*Describe working of simple ,compound microscopes and astronomical telescopes with the help of ray diagrams.</p> <p>*Deduce mathematically the expression for the magnifying power of the optical instruments.</p> <p>*Apply the concepts and formulae logically to solve related conceptual questions and numerical.</p> <p>*Compare and</p>	<p>Cognitive:</p> <ul style="list-style-type: none"> *define a vector differentiate btw *vector and scalar list the various types of vectors *differentiate btw direction cosines/ratios *define scalar product of vectors *apply the scalar product concept in solving questions *define vector product of vectors *apply the vector product concept in solving problems *evaluate the projection of a vector on another vector <p>Activity: To verify geometric relationships using vectors</p>	<p>KMnO₄ & K₂Cr₂O₇. Structures of their ions</p> <p>Lanthanoids & Actinoids: Configuration, Oxidation state, chemical reactivity</p> <p>Lanthanoid contraction & its consequences.</p> <p>Comparison between lanthanoids and actinoids.</p> <p>Topic: Coordination Compounds</p> <p>Sub-Topics:</p> <p>Introduction to the coordination compounds (terms- ligand, central atom/ion, coordination sphere,</p>	<p>-justify that predators act as 'conduits' for energy transfer across trophic levels.</p> <p>-give reason as to why the egrets always forage close to where the cattle are grazing</p> <p>-differentiate between positive and negative interactions with minimum two examples each.</p> <p>-classify real-life examples (e.g., lichen, Cuscuta, barnacles on whale) into correct interaction categories</p> <p>Topic: Ecosystem</p> <p>Subtopics:</p> <ul style="list-style-type: none"> -Ecosystem-structure and Function -Productivity -Decomposition 	<p>WiMax</p> <ul style="list-style-type: none"> • Network Security Concepts: Threats and prevention from Viruses, Worms, Trojan horse, Spams Use of Cookies, Protection using Firewall, https; India IT Act, Cyber Law, Cyber Crimes, IPR issues, hacking. • Introduction To Web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML); Hyper Text Transfer Protocol (HTTP); Domain Names; URL; Website, Web browser, Web Servers; Web Hosting <p>REVISION FOR MID TERM EXAM</p>	<p>Determination of exchange rate (Demand & Supply)</p> <p>Types: Fixed and Flexible exchange rate</p> <p>Learning Outcomes:</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> *Explain the concept and structure of BoP. *Differentiate between current and capital accounts. *Analyze causes of BoP disequilibrium. *Reflect upon the concept of foreign exchange and exchange rate. *Explain how 	<p>attribution, impression formation) Strategies for handling prejudice</p> <p>Learning Outcomes:</p> <p>Explain the concept and components of attitude (ABC model)</p> <p>Understand how attitudes are formed and changed</p> <p>Identify prejudice, stereotypes, and discrimination in real-life situations</p> <p>Explain social cognition processes like attribution and schemas</p>
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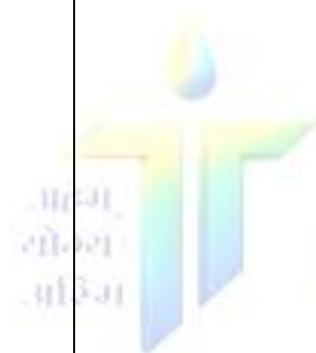
	<p>activity: Writing a dialogue exchange between Sophie and Danny Casey</p> <p>Life Skill: Decision-making</p> <p>Topic: Memories of Childhood by Zitkala - Sa and Bama</p> <p>Sub-Topic:</p> <ul style="list-style-type: none"> •the account of Simmons, An American Indian •the autobiography 'Karukku' by Bama - a Tamil Dalit •reflecting childhood memories <p>Learning Outcome:</p> <p>1.find out the commonality of theme found in the two distant cultures in the account</p>	<p>contrast reflecting telescope over refracting telescope.</p> <p>Topic: Electronic Devices:</p> <p>Subtopics:</p> <ul style="list-style-type: none"> *Energy bands in conductors, semiconductors, and insulators (qualitative ideas only) *Intrinsic and extrinsic semiconductors- p and n type, p-n junction *Semiconductor diode - I-V characteristics in forward and reverse bias. *Application of junction diode - diode as a rectifier. <p>Learning Outcomes:</p> <ul style="list-style-type: none"> *Differentiate between conductors, insulators, and 	<p>(e.g., components and direction).</p> <p>Activity 2: To verify that an angle in a semi-circle is a right angle using vector methods.</p> <p>Life skill Agriculture growth in India</p> <p>Topic:Three Dimensional Geometry</p> <p>Sub topic: Introduction</p> <ul style="list-style-type: none"> *Cartesian /Vector form of line * Angle between lines */Skew lines *Shortest Distance btw lines. <p>Learning Outcome:</p>	<p>coordination entity, counter ion, oxidation state & coordination no & their calculation) IUPAC nomenclature of mononuclear Compounds Isomerism (structural & stereo-isomerism) Bonding: Werner's theory VBT (Hybridisation & Geometry of complexes) CFT- Properties (magnetic behavior and color), Metal Carbonyl back bonding, Importance of coordination compounds (in qualitative inclusion, extraction of metals &</p>	<p>-Energy Flow -Ecological Pyramids</p> <p>Learning Outcomes</p> <p>Each student will be able to:</p> <ul style="list-style-type: none"> -describe the components of ecosystem -mention any two reasons why the primary productivity varies in different types of ecosystems -differentiate between net primary productivity and gross primary productivity -explain decomposition of detritus by different agents which is then made available as nutrients to the plants -give one example each of a detrivore and a 	<p>Learning outcome</p> <p>Each child will be able to:</p> <p>State the differences among different Telecom Technologies</p> <p>Differentiate among various network protocols</p> <p>Identify various security measures used on computer network.</p> <p>Identify different Network Models</p> <p>Differentiate among different Network Models.</p> <p>Differentiate among different telecom technologies</p> <p>Differentiate among different generations of mobile telecom</p> <p>Define various terms related to Web services</p> <p>Differentiate between XML and</p>	<p>exchange rates are determined in the market.</p> <p>*Compare fixed and flexible exchange rate systems.</p> <p>Activity 1: Case Discussion:</p> <p>Groups will discuss a real-world scenario (e.g., India facing trade deficit) and reflect on causes and possible corrective measures. They present solutions collaboratively.</p> <p>Activity 2: Currency "Market Role Play"</p> <p>Students act as buyers and sellers of foreign currency. Demand and supply shifts are introduced (e.g., increase in</p>	<p>Develop awareness about reducing prejudice and promoting inclusion</p> <p>Activity: Case based discussions and identifying theoretical concepts to real life situations.</p> <p>Values: Empathy and Respect for Diversity, Understanding others' perspectives, Reducing bias and prejudice</p> <p>Life Skills: Critical thinking Perspective taking Pro-social behaviour Decision making</p>	
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	<p>2.evaluate how injustice in any form cannot escape being noticed even by children</p> <p>3. comment on Bama's experience as a victim of the caste system.</p> <p>4. describe the kind of discrimination that Zitkala-Sa experiences</p> <p>Activity 1: Group Discussion: The seeds of rebellion are sown early in life.</p> <p>Activity 2: Art integrated activity: Create posters for cultural equality.</p> <p>Life Skill: Empathy</p>	<p>semiconductors based on conductivity and energy band diagram.</p> <p>*Explain the formation of p type and n type semiconductors and pn junction diode.</p> <p>*Draw circuit diagrams for characteristics of diode and graphically represent the variation of I with V.</p> <p>*Draw circuit diagram and explain working of a diode as a rectifier.</p> <p>Activity 1: Case study on refraction of light.</p> <p>Activity 2 : Case study on pn junction diodes.</p> <p>Life Skill: Web of Relationship, Critical thinking.</p>	<p>*recall the concept of 3-D</p> <p>*list the various forms of line</p> <p>*apply the various equations of line in solving problems</p> <p>*define skew lines</p> <p>*calculate the distance btw two lines-skew and parallel lines</p> <p>Activity: To locate points with given coordinates in space, measure the distance between two points, and verify it analytically.</p> <p>Life Skills: Problem solving</p> <p>Topic: Relation and Function</p> <p>Sub topic: Introduction)</p> <p>*Reflexive, Symmetric and</p>	<p>biological importance.</p> <p>Learning Outcomes:</p> <p>Discuss the consequences of f-block elements w.r.t lanthanide contraction.</p> <p>Discuss the methods of preparation and chemical properties of $KMnO_4$ & $K_2Cr_2O_7$ by writing the reactions involved.</p> <p>Predict the common characteristics of the d and f block elements.</p> <p>Draw and explain the structures of manganate and dichromate ions involved.</p> <p>Give a</p>	<p>decomposer</p> <p>-list three parameters used for constructing ecological pyramid</p> <p>-construct pyramids of numbers, biomass and energy</p> <p>-compare two different types of pyramids of biomass with the help of an example.</p> <p>Topic: Biodiversity and Conservation</p> <p>Subtopics:</p> <p>-Biodiversity</p> <p>-Biodiversity conservation</p> <p>Learning Outcomes</p> <p>Each student will be able to:</p> <p>-mention three important components of biodiversity</p>	<p>HTML</p> <p>Health & wellness:- Disability and Computer Equipment</p> <p>Activity Solve Case Study</p>	<p>imports), and students will observe how exchange rates change.</p> <p>Activity 3 Debate: "Fixed vs Flexible Exchange Rate – Which is better for India?"</p> <p>Development Experiences of India, China and Pakistan</p> <p>Sub-Topics</p> <p>*Economic systems adopted by the three countries</p> <p>*Growth strategies (India– Mixed economy, China–Socialist to market, Pakistan–Mixed with focus on agriculture)</p> <p>*Historical background post-</p>	<p>Topics: Social Influences and Group Processes</p> <p>Subtopics: Nature of groups and types of groups</p> <p>Social influence: Conformity, Compliance, Obedience Cooperation and Competition</p> <p>Group processes: Social facilitation, Social loafing Groupthink and decision-making</p> <p>Strategies for improving group functioning</p>	
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		<p>models for structure of atoms. *Explain the observations of the alpha particle scattering experiment. *State the postulates of the Bohr's model for hydrogen atoms. *Mathematically derive the expressions for radius, velocity, and total energy of an electron in a hydrogen atom. *Draw energy level diagram for hydrogen atom. *Explain the composition of the nucleus. *Infer the binding energy per nucleon graph and interpret the same for fission and fusion.</p> <p>Activity 1: Venn diagram to compare Rutherford's model with Bohr's atomic model.</p> <p>Activity 2:</p>	<p>nor transitive.</p> <p>To verify that a relation on the set of lines in a plane is an equivalence relation.</p> <p>To demonstrate a function which is not one-one but is onto.</p> <p>To demonstrate a function which is one-one but not onto. Values: *Interdependence *Unity in Diversity *Respect in Relationships</p>	<p>Explain the formation of high spin and low spin complexes. Explain the hybridisation of the central metal atom/ion in complexes based on magnetic properties. List the limitations of Werner's theory and VBT. Explain the properties of complex compounds- colour, type of complex etc using CFT. Discuss the importance and applications of coordination compounds in daily life.</p> <p>Draw VBT diagrams to explain the hybridization patterns in complexes.</p>	<p>Activity2 Productivity Calculation Activity Students will be provided with hypothetical data of: GPP = 20,000 kcal and Respiration loss = 8,000 kcal. Students will calculate NPP and Ecological efficiency</p> <p>Gender Sensitivity: -Recognize the role of all genders in conservation -Break stereotypes in environmental leadership</p>	<p>"What should India learn from China and Pakistan?" Students present and reflect collectively.</p> <p>Activity 2: Students discuss how government investment in health and education affects quality of life.</p>	<p>Activity: Case based discussions and class debates.</p> <p>Values: Teamwork and cooperation Respect for individual opinions Responsibility in group settings</p> <p>Life Skills: Communication skills Leadership and teamwork Decision making Conflict resolution</p>	
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		<p>Case study on Energy Level diagrams of Hydrogen atom.</p> <p>Health and wellness: Stress Management</p>		<p>Draw crystal field splitting patterns for tetrahedral and octahedral complexes. Differentiate between 1^o and 2^o valency. Distinguish between low spin and high spin complexes. Distinguish between weak field and strong field ligands.</p> <p>Activity 1: Case study on bonding in complexes</p> <p>Activity 2: Art Integration Activity Presentation on isomerism and application of complexes.</p> <p>Value: Fostering Respect For</p>					
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	<ul style="list-style-type: none"> • Theme-based questions • Cross-textual comparison <p>Learning Outcome</p> <ol style="list-style-type: none"> 1. Identify and analyse key ideas in unseen case-based passages 2. Interpret data and infer meaning in HOTS questions correctly 3. Draft two short and one long writing task as per format within stipulated word limit 4. Write 150–200 word analytical answers 5. Demonstrate improved time management, completing a section within allocated exam time 		<p>outcomes: mastery of formulas, solving logic-based questions, and increased accuracy in problem-solving.</p> <p>* Affective outcomes: increased confidence, reduced fear of mathematics, and positive exam mindset.</p> <p>* Psychomotor outcomes: improved speed in calculations, clear step-wise presentation, and time-bound accuracy.</p> <p>Questions from NCERT Textbook, Assignments, previous year’s board papers and</p>						
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	<p>Activity 1 Group work: Fixing formats, trim or expand word limit, improve analysis, reading out the final answers</p> <p>Activity 2 Peer checking using a checklist: key idea correctly identified, at least one valid inference, answer within word limit</p> <p>Life Skill: Time Management</p>		<p>Exemplar for practice Syllabus for Revision Test</p> <p>CHAPTER 7 : INTEGRALS</p> <p>CHAPTER 8 : APPLICATION OF INTEGRALS</p> <p>CHAPTER 9 : DIFFERENTIAL EQUATIONS</p> <p>CHAPTER 10 : VECTOR ALEGBRA</p> <p>CHAPTER 11 : THREE DIMENSIONAL GEOMETRY</p>						
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			CHAPTER 12 : LINEAR PROGRAMMING						
			CHAPTER 13 : PROBABILITY						
December	Topic: Revision for Pre-Board Examination	Revision for Board Examination & Practice for CBSE Board Practical.	Revision for Board Examination & Practice for CBSE Board Practical	Revision for Board Examination & Practice for CBSE Board Practical	Revision for Board Examination & Practice for CBSE Board Practical	Revision for Board Examination & Practice for CBSE Board Practical	REVISION	Revision for Pre Board Examination & Practice for CBSE Board Practical	Revision for Board Examination & Practice for CBSE Board Practical
Topic	Sub topics								
Subtopic	A. Case-Based Passages								
Learning Outcome	• Discursive/ Factual passages		Questions from NCERT						
Activity1	• Data-based interpretation		Textbook,						
Activity2	B. Writing Skills		Assignments,						
Life Skill	• Notice		previous year`s board papers and Exemplar for practice						
Value	•								
Gender	Invitations/Replies		full-length mock tests, topic-wise practice sheets, and board pattern papers.						
Health and Wellness	• Letter to Editor/Job Application								
	• Article								
	• Report								
	C. Literature								

	<p>(Flamingo and Vistas)</p> <ul style="list-style-type: none"> • Extract-based questions • Character analysis • Theme-based questions • Cross-textual comparison <p>Learning Outcome</p> <ol style="list-style-type: none"> 1. Identify and analyse key ideas in unseen case-based passages 2. Interpret data and infer meaning in HOTS questions correctly 3. Draft two short and one long writing task as per format within stipulated word limit 4. Write 150–200 word analytical answers 5. Demonstrate 		*						
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	<p>improved time management, completing a section within allocated exam time</p> <p>Activity 1 Group work: Fixing formats, trim or expand word limit, improve analysis, reading out the final answers</p> <p>Activity 2 Peer checking using a checklist: key idea correctly identified, at least one valid inference, answer within word limit</p> <p>Life Skill: Time Management</p>								
<p>January</p> <p>Topic</p>	<p>Topic: 1. Assessment of Listening and</p>	<p>Revision for Board Examination & Practice for CBSE Board Practical</p>	<p>REVISION</p>	<p>Revision for Board Examination & Practice for</p>	<p>Revision for Board Examination & Practice for CBSE Board Practical</p>	<p>Revision for Board Examination & Practice for CBSE Board Practical</p>	<p>REVISION</p>	<p>Revision for Pre Board Examination & Practice for</p>	<p>Revision for Board Examination & Practice for</p>

Subtopic	Speaking Skills 2. Revision for Board Examination			CBSE Board Practical				CBSE Board Practical	CBSE Board Practical
Learning Outcome	Sub topics Reading Skills:								
Activity1	A. Case-Based Passages								
Activity2	• Discursive/ Factual passages								
Life Skill	• Data-based interpretation								
Value	B. Writing Skills								
Gender	• Notice								
Health and Wellness	• Invitation/Reply								
	• Letter to Editor								
	• Article								
	• Report								
	C. Literature (Flamingo and Vistas)								
	• Extract-based questions								
	• Character analysis								
	• Theme-based questions								
	• Cross-textual comparison								
	Learning Outcome								

	<p>1. Identify and analyse key ideas in unseen case-based passages</p> <p>2. Interpret data and infer meaning in HOTS questions correctly</p> <p>3. Draft two short and one long writing task as per format within stipulated word limit</p> <p>4. Write 150–200 word analytical answers</p> <p>5. Demonstrate improved time management, completing a section within allocated exam time</p> <p>Activity 1 Group work: Fixing formats, trim or expand word limit, improve analysis, reading</p>								
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	<p>out the final answers</p> <p>Activity 2 Peer checking using a checklist: key idea correctly identified, at least one valid inference, answer within word limit</p> <p>Life Skill: Time Management Mental health awareness and coping strategies among adolescents</p>								
February	Revision		Revision	Revision	Revision	Revision	Revision	Revision	Revision

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