

## SYLLABUS OF CLASS X (2023 – 2024)

### ENGLISH

MONTH	TOPIC
APRIL	<b>Literature:</b> A Letter to God, A Triumph of Surgery, Dust of Snow, Fire and Ice <b>Writing:</b> Letter to the Editor <b>Grammar:</b> Tenses, Modals, ASL
MAY	<b>Literature:</b> The Thief's story, Nelson Mandela, A Tiger in the Zoo <b>Writing:</b> Story Writing
JULY	<b>Literature:</b> Two stories about flying, From the Diary of Anne Frank, How to tell wild animals, The Midnight Visitor <b>Writing:</b> Inquiry Letter <b>Grammar:</b> Subject- verb concord <b>ASL</b>
AUGUST	<b>Literature:</b> Amanda, The Ball Poem, Footprints without feet, The Making of a Scientist <b>Writing:</b> Story, Analytical Paragraph based on data, chart, Outline and cues <b>Grammar:</b> Reported Speech <b>ASL</b>
SEPTEMBER	Revision
OCTOBER	<b>Literature:</b> The Book that saved the Earth, Fog, The Necklace <b>Writing:</b> Complaint Letter <b>ASL</b>
NOVEMBER	<b>Literature :</b> Glimpses of India, The Trees, Mijbil the otter, A question of trust, <b>Writing:</b> Placing order letters <b>Grammar:</b> Determiners
DECEMBER	<b>Literature:</b> Madam rides the bus, The Tale of Custard the Dragon, The Sermon at Benaras, The Proposal,(Play) Bholi, For Anne Gregory <b>ASL</b>

#### PORTION FOR THE PERIODIC TEST –

**PT 1 -** A Letter to God  
Dust of Snow  
Fire and Ice  
Formal Letter

**PT 2 -** The Book that saved the Earth  
Fog  
The Necklace  
Complaint Letter

### HINDI

MONTH	TOPIC	
अप्रैल	साहित्य	नेताजी का चश्मा - स्वयं प्रकाश, सूरदास
	व्याकरण	रचना के आधार पर वाक्य भेद, पत्र

मई	साहित्य	माता का अँचल- शिवपूजन सहाय
	व्याकरण	वाच्य, अपठित गद्यांश, अपठित काव्यांश
जुलाई	साहित्य	बालगोबिन भगत - रामवृक्ष बेनीपुरी
	व्याकरण	पद परिचय, अलंकार - शब्दालंकार : श्लेष, अर्थालंकार - उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण, स्ववृत्त लेखन, औपचारिक ई- मेल
अगस्त	साहित्य	निराला (उत्साह, अट नहीं रही है), नागार्जुन (यह दंतुरित मुसकान, फ़सल)
	व्याकरण	विज्ञापन लेखन, अनुच्छेद, लेखन, शुभकामना सन्देश लेखन
सितम्बर	साहित्य	एक कहानी यह भी - मन्नू भंडारी, साना साना हाथ जोड़ि - मधु कांकरिया
	व्याकरण	पुनरावृत्ति
अक्तूबर	साहित्य	तुलसीदास (राम, लक्ष्मण, परशुराम संवाद), संगतकार - मंगलेश डबराल
	व्याकरण	अनुच्छेद, लेखन, शुभकामना सन्देश लेखन
नवम्बर	साहित्य	नौबत खाने में इबादत - यतीन्द्र मिश्र, मैं क्यों लिखता हूँ - अज्ञेय
	व्याकरण	अलंकार - शब्दालंकार : श्लेष, अर्थालंकार - उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण
दिसम्बर	साहित्य	लखनवी अंदाज़ - यशपाल, आत्मकथ्य - कवि जय शंकर प्रसाद
	व्याकरण	विज्ञापन लेखन
जनवरी	साहित्य	पुनरावृत्ति
	व्याकरण	पुनरावृत्ति

PORTION FOR PERIODIC TEST –

### सामयिक परीक्षा - I

साहित्य	नेताजी का चश्मा, सूरदास, माता का अँचल
व्याकरण	रचना के आधार पर वाक्य भेद, वाच्य, अपठित गद्यांश

### सामयिक परीक्षा - II

साहित्य	तुलसीदास (राम, लक्ष्मण, परशुराम संवाद), एक कहानी यह भी
व्याकरण	पद परिचय, अपठित काव्यांश, अलंकार

## MATHEMATICS

MONTH	TOPIC
<b>MARCH/ APRIL</b>	<p><b>LINEAR EQUATIONS IN TWO VARIABLES</b></p> <p>Pair of linear equations in two variables and graphical method of their Solution, consistency/inconsistency.</p> <p>Algebraic conditions for number of solutions. Solution of a pair of linear equations in two Variables algebraically – by substitution, by elimination. Simple situational problems.</p> <p><b>REALNUMBERS</b></p> <p>Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of <math>\sqrt{2}, \sqrt{3}</math> &amp; <math>\sqrt{5}</math> etc.</p>
<b>MAY</b>	<p><b>POLYNOMIALS</b></p> <p>Zeros of a polynomial. Relationship between zeros and coefficients of quadratic</p>
<b>JULY</b>	<p><b>QUADRATIC EQUATIONS</b></p> <p>Represent the equation in general form as <math>ax^2 + bx + c = 0</math> where a, b, c are real numbers and <math>a \neq 0</math></p> <p>Solve the quadratic equation by factorization, completing the square method and by quadratic formulae method.</p> <p>Calculate the discriminant to find the nature of roots and apply the same to problem solving.</p> <p><b>ARITHMETIC PROGRESSION</b></p> <p>Recognize the pattern in a series. Identify the first term, the common difference and learn to find the nth term and sum of n terms of an A.P.</p> <p><b>COORDINATE GEOMETRY</b></p> <p>Concepts of coordinate geometry, graphs of linear equations. Distance formula. Section formula (internal division).</p>
<b>AUGUST</b>	<p><b>TRIANGLES</b></p> <p>Understand similarity and criteria of similarity of triangles( SSS, SAS,AA)</p>
<b>SEPTEMBER</b>	<p><b>REVISION</b></p> <p><b>FIRST TERMINAL EXAMINATION</b></p>
<b>OCTOBER</b>	<p><b>INTRODUCTION TO TRIGONOMETRY</b></p> <p>Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios whichever are defined at <math>0^\circ</math> and <math>90^\circ</math>. Values of the trigonometric ratios of <math>30^\circ</math>, <math>45^\circ</math> and <math>60^\circ</math>. Relationships between the ratios.</p> <p><b>TRIGONOMETRIC IDENTITIES</b></p> <p>Proof and applications of the identity <math>\sin^2 A + \cos^2 A = 1</math>. Only simple identities to be given.</p>

	<p><b>HEIGHTS AND DISTANCES</b> Angle of elevation, Angle of Depression.</p> <p>Simple problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only <math>30^\circ</math>, <math>45^\circ</math>, and <math>60^\circ</math>.</p> <p><b>CIRCLES</b> Tangent to a circle at, point of contact</p> <ol style="list-style-type: none"> <li>(Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact.</li> <li>(Prove) The lengths of tangents drawn from an external point to a circle are equal.</li> </ol>
<b>NOVEMBER</b>	<p><b>AREAS RELATED TO CIRCLES</b></p> <p>Area of sectors and segments of a circle. Problems based on areas and perimeter / circumference of the above said plane figures. (In calculating area of segment of a circle, problems should be restricted to central angle of <math>60^\circ</math>, <math>90^\circ</math> and <math>120^\circ</math> only.</p> <p><b>2. SURFACE AREAS AND VOLUMES</b> Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones.</p>
<b>DECEMBER</b>	<p><b>STATISTICS</b></p> <p>Mean, median and mode of grouped data (bimodal situation to be avoided).</p> <p><b>PROBABILITY</b></p> <p>Write the formula of probability of an event. Find the probability of a given event.</p>

## PHYSICS

<b>MARCH</b>	<p><b>LIGHT - REFLECTION</b></p> <ul style="list-style-type: none"> <li>● Introduction to light as a ray</li> <li>● Laws of Reflection of Light</li> <li>● Terms associated with mirrors</li> </ul>
<b>APRIL</b>	<p><b>LIGHT – REFLECTION AND REFRACTION OF LIGHT</b></p> <ul style="list-style-type: none"> <li>● Reflection through Spherical Mirrors</li> <li>● Image formation by Concave and Convex mirrors</li> <li>● Refraction of Light</li> <li>● Refraction by spherical lenses</li> <li>● Image formation by spherical lenses</li> </ul>

<b>MAY</b>	<b>LIGHT - REFRACTION OF LIGHT.</b> <ul style="list-style-type: none"> <li>● Law of refraction of light</li> <li>● Refractive index</li> <li>● Lens formula and power of a lens</li> </ul>
<b>JULY</b>	<b>HUMAN EYE AND THE COLOURFUL WORLD.</b> <ul style="list-style-type: none"> <li>● Functioning of a lens in human eye</li> <li>● Defect of vision and their correction</li> </ul>
<b>AUGUST</b>	<b>HUMAN EYE AND COLOURFUL WORLD</b> <ul style="list-style-type: none"> <li>● Refraction of light through prism</li> <li>● Dispersion of light</li> <li>● Scattering of light</li> </ul>
<b>SEPTEMBER</b>	<b>REVISION, FIRST TERMINAL EXAM</b>
<b>OCTOBER</b>	<b>CURRENT ELECTRICITY.</b> <ul style="list-style-type: none"> <li>● Potential difference and electric current</li> <li>● Ohm's Law and resistance</li> <li>● Series and parallel combination of resistance</li> <li>● Heating effect of electric current and Electric power</li> </ul>
<b>NOVEMBER</b>	<b>MAGNETIC EFFECTS OF AN ELECTRIC CURRENT.</b> <ul style="list-style-type: none"> <li>● Magnetic field and field lines</li> <li>● Magnetic field due to straight conductor , circular conductor or solenoid</li> <li>● Fleming 's left hand rule</li> <li>● Alternating and direct current</li> <li>● Domestic circuit</li> </ul>
<b>DECEMBER</b>	<b>REVISION</b>

## CHEMISTRY

<b>MONTH</b>	<b>TOPIC</b>
<b>APRIL</b>	<b>CHEMICAL REACTIONS AND EQUATIONS:</b> Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic exothermic reactions, oxidation and reduction.

<b>MAY</b>	<p><b>CHEMICAL REACTIONS AND EQUATIONS:</b> Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic exothermic reactions, oxidation and reduction.</p> <p><b>ACIDS , BASES AND SALTS:</b> Their definitions in terms of furnishing of H<sup>+</sup> and OH<sup>-</sup> ions, General properties, examples and uses, neutralization, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris</p>
<b>JULY</b>	<p><b>ACIDS , BASES AND SALTS:</b> Their definitions in terms of furnishing of H<sup>+</sup> and OH<sup>-</sup> ions, General properties, examples and uses, neutralization, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris</p>
<b>AUGUST</b>	<p><b>METALS AND NON METALS:</b> Physical and chemical Properties of metals and non-metals ; Reaction of metals and non metals with air, water, acids ; Amphoteric oxides; Reactivity series.</p>
<b>SEPTEMBER</b>	<p><b>METALS AND NON METALS (contd.)</b> Formation and properties of ionic compounds , Reaction of metals and non metals, Electron dot structures.</p>
<b>OCTOBER</b>	<p><b>METALS AND NON METALS (contd.)</b> Basic metallurgical processes; Enrichment of ores , Extracting metals low in the activity series, Extracting metals in the middle of the activity series, Extracting metals towards the top of the activity series middle ;Refining of metals, Corrosion and its prevention.</p>
<b>NOVEMBER</b>	<p><b>CARBON AND ITS COMPOUNDS:</b> Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydro carbons and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents.</p>
<b>DECEMBER</b>	<p><b>CARBON AND ITS COMPOUNDS:</b> Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydro carbons and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents.</p>
<b>JANUARY</b>	<b>REVISION</b>
<b>FEBRUARY</b>	<b>FINAL TERM</b>

## BIOLOGY

MONTH	TOPIC
MARCH	Chapter 5. Life processes. What are life processes? nutrition; respiration; transportation; excretion.
APRIL	Chapter 5. continuing...
MAY	Chapter 5. continuing...  Chapter 6. Control and coordination. Animals-nervous system; coordination in plants; hormones in animals.
JULY	Chapter 6. Control and coordination. Animals-nervous system; coordination in plants; hormones in animals.
AUGUST	Chapter 7. How do organisms reproduce? Do organisms create exact copies of themselves? Modes of reproduction used by single organisms; sexual reproduction.  Revision.
SEPTEMBER	<b>First terminal examination.</b>
OCTOBER	Chapter 7. How do organisms reproduce? Do organisms create exact copies of themselves? Modes of reproduction used by single organisms; sexual reproduction.  Chapter 8. Heredity and evolution. Accumulation of variation during reproduction; heredity.
NOVEMBER	Chapter 13. Our environment. Ecosystem-What are its components? How do our activities affect the environment?
DECEMBER	Revision.

## HISTORY/ POLITICAL SCIENCE

MONTH	TOPIC
APRIL	<p><b><u>HISTORY</u></b></p> <p><b>The Rise of Nationalism in Europe:</b></p> <ul style="list-style-type: none"> <li>• The French Revolution and the Idea of the Nation</li> <li>• The Making of Nationalism in Europe</li> <li>• The Age of Revolutions:1830-1848</li> <li>• The Making of Germany and Italy</li> <li>• Visualizing the Nation</li> <li>• Nationalism and Imperialism</li> </ul>

	<p><b><u>POLITICAL SCIENCE</u></b>  <b>Power Sharing:</b></p> <ul style="list-style-type: none"> <li>• Belgium and Sri Lanka</li> <li>• Majoritarianism in Sri Lanka</li> <li>• Accommodation in Belgium</li> <li>• Why power sharing is desirable?</li> <li>• Forms of Power Sharing</li> </ul>
<b>MAY</b>	<p><b><u>POLITICAL SCIENCE</u></b>  <b>Federalism:</b></p> <ul style="list-style-type: none"> <li>• What is Federalism?</li> <li>• What make India a Federal Country?</li> <li>• How is Federalism practiced?</li> <li>• Decentralization in India</li> </ul>
<b>JULY</b>	<p><b><u>HISTORY</u></b>  <b>Nationalism in India:</b></p> <ul style="list-style-type: none"> <li>• The First World War, Khilafat and Non -Cooperation</li> <li>• Differing Strands within the Movement</li> <li>• Towards Civil Disobedience</li> <li>• The Sense of Collective Belonging</li> </ul> <p><b><u>POLITICAL SCIENCE</u></b>  <b>Gender, Religion and Caste:</b></p> <ul style="list-style-type: none"> <li>• Gender and Politics-Public/Private division, Women’s political representation</li> <li>• Religion, Communalism and Politics –Communalism, Secular State(excluding image on page 46, 48, 49 of NCERT Textbook–Democratic Politics–II – reprinted edition2021)</li> <li>• Caste and Politics - Caste inequalities, Caste in politics, Politics in caste</li> </ul>
<b>AUGUST</b>	<p><b><u>HISTORY</u></b>  <b>The Making of a Global World:</b></p> <ul style="list-style-type: none"> <li>• The Pre-modern world</li> <li>• The Nineteenth Century (1815-1914)</li> <li>• The Interwar Economy</li> <li>• Rebuilding a World Economy : The Post-War Era</li> </ul>
<b>SEPTEMBER</b>	<p><b><u>POLITICAL SCIENCE</u></b>  <b>Political Parties:</b></p> <ul style="list-style-type: none"> <li>• Why do we need Political Parties? –Meaning, Functions, Necessity</li> <li>• How many parties should we have?</li> <li>• National Parties</li> <li>• State Parties</li> <li>• Challenges to Political Parties</li> <li>• How can Parties be reformed?</li> </ul>



<b>OCTOBER</b>	<p><b><u>HISTORY</u></b></p> <p><b>The Age of Industrialization:</b></p> <ul style="list-style-type: none"> <li>• Before the Industrial Revolution</li> <li>• Hand Labour and Steam Power</li> <li>• Industrialization in the Colonies</li> <li>• Factories Come Up</li> <li>• The Peculiarities of Industrial Growth</li> <li>• Market for Goods</li> </ul>
<b>NOVEMBER</b>	<p><b><u>HISTORY</u></b></p> <p><b>Print Culture and the Modern World:</b></p> <ul style="list-style-type: none"> <li>• The First Printed Books</li> <li>• Print Comes to Europe</li> <li>• The Print Revolution and its Impact</li> <li>• The Reading Mania</li> <li>• The Nineteenth Century</li> <li>• India and the World of Print</li> <li>• Religious Reform and Public Debates</li> <li>• New Forms of Publication</li> <li>• Print and Censorship</li> </ul> <p><b><u>POLITICAL SCIENCE</u></b></p> <p><b>Outcomes of Democracy:</b></p> <ul style="list-style-type: none"> <li>• How do we assess democracy's outcomes?</li> <li>• Accountable, responsive and legitimate government</li> <li>• Economic growth and development</li> <li>• Reduction of in equality and poverty</li> <li>• Accommodation of social diversity</li> <li>• Dignity and freedom of the citizens</li> </ul>
<b>DECEMBER</b>	<b>REVISION</b>

## **GEOGRAPHY**

<b>MONTH</b>	<b>TOPIC</b>
<b>MARCH / APRIL</b>	<p><b>CHAPTER 1 – RESOURCES AND DEVELOPMENT</b></p> <p>Types of Resources, Development of Resources, Resources Planning in India, Land Resources, Land Utilization, Land use Pattern in India, Land Degradation and Conservation Measures, Soil as a Resource, Classification of Soils, Soil Erosion and Soil Conservation.</p>

<b>MAY / JULY</b>	<b>CHAPTER 2 – FOREST AND WILDLIFE</b> Biodiversity or Biological Diversity, Flora and Fauna in India, Vanishing Forests, Asiatic Cheetah : Where did they go?, The Himalayan Yew in trouble, Conservation of Forest and Wildlife in India, Project Tiger – Types and distribution of forests and wildlife Resources, Community and Conservation.
<b>AUGUST</b>	<b>CHAPTER 3 : WATER RESOURCES</b> Water Scarcity and the Need for Water Conservation and Management, Multi Purpose River Projects and Integrated Water Resources Management, Rain Water Harvesting
<b>SEPTEMBER</b>	<b>CHAPTER 4 – MINERALS AND ENERGY RESOURCES</b> What is a mineral?, Mode of Occurrence of Minerals, Ferrous and Non Ferrous Minerals, Non – Metallic Minerals, Rock Minerals, Conservation of Minerals, Energy Resources, Conventional and Non Conventional, Conservation of Energy Resources.
<b>OCTOBER</b>	<b>CHAPTER 5 – MANUFACTURING INDUSTRIES</b> Importance of manufacturing, Contribution of Industry to National Economy, Industrial Location, Classification of Industries, Spatial distribution, industrial pollution and environmental degradation, Control of Environmental Degradation
<b>NOVEMBER / DECEMBER</b>	<b>CHAPTER 6 – LIFE LINES OF NATIONAL ECONOMY</b> Transport – Roadways, railways, Pipelines, Waterways, Airways, Communication, International Trade, Tourism as a Trade

## ECONOMICS

<b>MONTH</b>	<b>TOPIC</b>
<b>MARCH / APRIL</b>	<b>CHAPTER 1 – DEVELOPMENT</b> What Development Promises, Different people different goals, Income and other goals, National Development, How to compare different countries or states?, Income and other criteria, Public Facilities, Sustainability of development.
<b>JULY/ AUGUST</b>	<b>CHAPTER 2 – SECTORS OF THE INDIAN ECONOMY</b> Sectors of Economic Activities, Comparing the three sectors, Primary, Secondary and Tertiary Sectors in India, Division of sectors as organized and unorganized, Sectors in terms of ownership : Public and Private Sectors
<b>SEPTEMBER / OCTOBER</b>	<b>CHAPTER 3 – MONEY AND CREDIT</b> Money as a medium of exchange, Modern forms of money, Loan activities of Banks, Two different credit situation, Terms of credit, Formal sector credit in India, Self Help Groups for the poor.
<b>NOVEMBER / DECEMBER</b>	<b>CHAPTER 4 – GLOBALIZATION AND THE INDIAN ECONOMY</b> Production across countries, Interlinking production across countries, Foreign Trade and Integration of markets, What is Globalization?, Factors that have enabled Globalization, World Trade Organisation, Impact of Globalization on India, The Struggle for a fair Globalization.  <b>CHAPTER 5 – CONSUMER RIGHTS</b> TO BE DONE AS PROJECT WORK