

**DETAILED SYLLABUS (2024-25)**

**CLASS: X**

**ENGLISH**

Month	Topic
<b>APRIL</b>	<b>Literature</b> : A Letter to God, Dust of snow, Fire and Ice, The Thief's story, A Triumph of Surgery <b>Grammar</b> : Simple and Continuous Tenses, Perfect and Perfect Continuous Tenses, Modals <b>Writing</b> : Letter to the Editor <b>Art Integrated Activity:</b> Compose a nature poem
<b>MAY</b>	<b>Literature</b> : Nelson Mandela, A Tiger in the zoo, Two stories about flying, From the diary of Anne Frank <b>Writing</b> : Story <b>Art Integrated Activity</b> : Poster on racial discrimination
<b>JULY</b>	<b>Literature</b> : How to tell wild animals, The Midnight Visitor, Amanda, Glimpses of India, The Ball poem <b>Grammar</b> : Sub-verb concord, determiners <b>Writing</b> : Inquiry Letter
<b>AUGUST</b>	<b>Literature</b> : Footprints without feet, The making of Scientist, The Book that saved the earth, Mijbil the Otter <b>Grammar</b> : Direct and Indirect Speech ,ASL <b>Writing</b> : Analytical paragraph, Placing order letter <b>Art Integrated Activity</b> : Role play
<b>SEPTEMBER</b>	<b>Literature</b> : Fog, The Necklace Revision ASL
<b>OCTOBER</b>	<b>Literature</b> : The Trees, A Question of Trust, Madam rides the bus, The tale of Custard, The Sermon at Benaras, Bholi, The Proposal, For Anne Gregory <b>Writing</b> : Complaint letter <b>Art Integrated Activity</b> : Poster on Girl child education ASL

**PORTION FOR:**

**PERIODIC ASSESSMENT 1**

**Literature Reader :** A Letter to God, Dust of snow, Fire and Ice, The Thief's story, A Triumph of Surgery, Nelson Mandela, A Tiger in the zoo, Two stories about flying, From the diary of Anne Frank

**Grammar :** Simple and Continuous Tenses Perfect and Perfect Continuous Tenses

**Writing :** Formal letter

**PERIODIC ASSESSMENT 2**

**Literature Reader :** The Trees, A Question of Trust, Madam rides the bus, The tale of Custard, The Sermon at Benaras, Bholi, The Proposal

**Grammar :** Determiners

**Writing :** Complaint letter

**MATHS**

<b>MONTH</b>	<b>TOPIC</b>
<b>APRIL</b>	<p><b>PAIR OF LINEAR EQUATIONS IN TWO VARIABLES</b> Pair of f 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>Pair of linear equations in two variables and graphical method of their Solution, consistency/inconsistency. 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>REAL NUMBERS</b> Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of <math>\sqrt{2}</math>, <math>\sqrt{3}</math> and <math>\sqrt{5}</math>.</p> <p><b>POLYNOMIALS</b> Zeros of a polynomial. Relationship between zeros and coefficients</p>
<b>MAY</b>	<p><b>QUADRATIC EQUATIONS</b> 1. 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> 2. Solve the quadratic equation by factorization, and by quadratic formulae method.3. Calculate the discriminant to find the nature of roots and apply the same to problem solving. Zeros of a polynomial. Relationship between zeros and coefficients.</p>
<b>JULY</b>	<p><b>ARITHMETIC PROGRESSION</b> 1. Recognize the pattern in a series. 2. 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> Concepts of coordinate geometry, graphs of linear equations. Distance formula. Section formula (internal division).</p> <p><b>SIMILAR TRIANGLES</b> Understand similarity and criteria of similarity of triangles( SSS,SAS,AA)</p>
<b>AUGUST</b>	<p><b>INTRODUCTION TO TRIGONOMETRY</b> 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> 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. Simple problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only 30°, 45°, and 60°.</p>
<b>SEPTEMBER.</b>	<p><b>PROBABILITY</b>  1. Write the formula of probability of an event.  2. Find the probability of a given</p>
<b>OCTOBER</b>	<p><b>CIRCLES</b>  Tangent to a circle at point of contact.  The tangent at any point of a circle is perpendicular to the radius through the point of contact.  The lengths of tangents drawn from an external point to a circle are equal.  <b>AREAS RELATED TO CIRCLES</b>  Area of sectors and segments of a circle. Problems based on areas and perimeter / problem should be restricted to Central angle of 60° 90° and 120 degree  <b>SURFACE AREA AND VOLUMES</b>  Surface area and volume of combination of solids.  <b>STATISTICS</b>  Mean, median and mode of grouped data (bimodal situation to be avoided).</p>

**PORTION FOR:**

**PERIODIC ASSESSMENT 1      PAIR OF LINEAR EQUATIONS IN TWO VARIABLES  
REAL NUMBERS  
POLYNOMIALS**

**PERIODIC ASSESSMENT 2      CIRCLES  
AREA RELATED TO CIRCLES**

**PHYSICS**

<b>MONTH</b>	<b>TOPIC</b>
<b>APRIL</b>	<p><b>LIGHT – REFLECTION AND REFRACTION OF LIGHT</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> <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>	<p><b>LIGHT - REFRACTION OF LIGHT.</b></p> <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>	<p><b>HUMAN EYE AND THE COLOURFUL WORLD.</b></p> <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>	REVISION
<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>

**PORTION FOR:**

**PERIODIC ASSESSMENT 1**      LIGHT-REFLECTION AND REFRACTION

**PERIODIC ASSESSMENT 2**      CURRENT ELECTRICITY

**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 reactions
<b>MAY</b>	<b>CHEMICAL REACTIONS AND EQUATIONS:</b> Displacement, double displacement, precipitation, endothermic exothermic reactions, oxidation and reduction.  <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.
<b>JULY</b>	<b>ACIDS , BASES AND SALTS:</b> Importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris <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. Formation and properties of ionic compounds , Reaction of metals and non metals, Electron dot structures.

<b>AUGUST</b>	<b>METALS AND NON METALS</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.
<b>SEPTEMBER</b>	<b>REVISION</b>
<b>OCTOBER</b>	<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.

**PORTION FOR:**

**PERIODIC ASSESSMENT 1      CHEMICAL REACTIONS AND EQUATIONS**

**PERIODIC ASSESSMENT 2      CARBON AND ITS COMPOUNDS**

**BIOLOGY**

<b>APRIL &amp; MAY</b>	<b>Chapter 5 - Life processes</b> <ul style="list-style-type: none"> <li>• <b>Autotrophic and heterotrophic nutrition</b></li> <li>• <b>Respiration</b></li> <li>• <b>Transportation in human beings</b></li> <li>• <b>Transportation in plants</b></li> <li>• <b>Excretion in human beings</b></li> <li>• <b>Excretion in plants</b></li> </ul>
<b>JULY</b>	<b>Chapter 6 - Control and coordination</b> <ul style="list-style-type: none"> <li>• <b>Nervous system in animals</b></li> <li>• <b>Reflex action and reflex arc</b></li> <li>• <b>Human brain</b></li> <li>• <b>Action of nervous tissue</b></li> <li>• <b>Coordination in plants-immediate response to stimulus, movement due to growth</b></li> <li>• <b>Hormones in animals</b></li> </ul> <b>Chapter 13 - Our environment</b> <ul style="list-style-type: none"> <li>• <b>Ecosystem-it's components</b></li> <li>• <b>Food chain and food web</b></li> <li>• <b>Ozone layer and its depletion</b></li> <li>• <b>Managing the garbage production</b></li> </ul>
<b>AUGUST</b>	<b>Chapter 7 - How do organisms reproduce?</b> <ul style="list-style-type: none"> <li>• <b>DNA copying and importance of variation</b></li> <li>• <b>Methods of asexual reproduction-fission, fragmentation, regeneration, budding, vegetative propagation, spore formation</b></li> </ul>
<b>SEPTEMBER</b>	<b>REVISION &amp;MID TERM</b>

<b>OCTOBER</b>	<p><b>Chapter 7 - How do organisms reproduce?</b></p> <ul style="list-style-type: none"> <li>• Sexual reproduction in flowering plants</li> <li>• Sexual reproduction in human beings-Male and female reproductive system</li> <li>• Menstrual cycle</li> <li>• Reproductive health</li> </ul> <p><b>Chapter 8 - Heredity</b></p> <ul style="list-style-type: none"> <li>• Inherited traits</li> <li>• Rules for the inheritance of traits-Mendel's contribution</li> <li>• Expression of traits in the offsprings</li> <li>• Sex determination in human beings</li> </ul>
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**PORTION FOR:**

**PERIODIC ASSESSMENT 1      CHAPTER 5 – LIFE PROCESSES (PAGE NO 79 TO PAGE NO 88)**

**PERIODIC ASSESSMENT 2      CHAPTER 7 – HOW DO ORGANISMS REPRODUCE?  
(COMPLETE CHAPTER)**

**HISTORY & POLITICAL SCIENCE**

MONTH	LESSON
APRIL	<p><b>HISTORY</b></p> <p>The Rise of Nationalism in Europe</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>POLITICAL SCIENCE</b></p> <p>Power Sharing</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> <p>Federalism</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>
MAY	<p><b>HISTORY</b></p> <p>The Making of a Global World</p> <ul style="list-style-type: none"> <li>• The pre-modern world (Subtopic- 1 to 1.3)</li> </ul> <p>Inter-Disciplinary Project</p>

<p style="text-align: center;">JULY</p>	<p><b>HISTORY</b>  Nationalism in India</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>POLITICAL SCIENCE</b>  Gender, Religion and Caste</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>
<p style="text-align: center;">AUGUST</p>	<p><b>HISTORY</b>  Print Culture and the Modern World</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>POLITICAL SCIENCE</b>  Political Parties</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? • National Parties • State Parties • Challenges to Political Parties</li> <li>• How can Parties be reformed?</li> </ul>
<p style="text-align: center;">SEPTEMBER</p>	<p><b>HISTORY</b>  The Age of Industrialization</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> <p><b>POLITICAL SCIENCE</b>  Outcomes of Democracy</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>

OCTOBER	REVISION
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**PORTION FOR:**

**PERIODIC ASSESSMENT 1**      HISTORY – NATIONALISM IN EUROPE  
POL SC. – POWER SHARING

**PERIODIC ASSESSMENT 2**      HISTORY – AGE OF INDUSTRIALIZATION  
POL SC. – POLITICAL PARTIES

**GEOGRAPHY & ECONOMICS**

Month	Topic
<b>APRIL</b>	<b>GEOGRAPHY:</b> Ch. 1 – Resources and Development  <b>ECONOMICS:</b> Ch. 1 – Development
<b>MAY</b>	<b>GEOGRAPHY:</b> Ch. 2 – Forest and Wildlife Resources  <b>ECONOMICS:</b> Ch. 2 – Sectors of the Indian Economy
<b>JULY</b>	<b>GEOGRAPHY:</b> Ch. 3 – Water Resources Ch. 4 – Agriculture  <b>ECONOMICS:</b> Ch. 3 – Money and Credit
<b>AUGUST</b>	<b>GEOGRAPHY:</b> Ch. 5 – Minerals and Energy Resources Ch. 6 – Manufacturing Industries  <b>ECONOMICS:</b> Ch. 4 – Globalisation and the Indian Economy
<b>SEPTEMBER</b>	<b>REVISION+HALF-YEARLY</b>



<b>OCTOBER</b>	<b>GEOGRAPHY:</b> Ch. 6 – Manufacturing Industries (Contd....) Ch. 7 – Lifelines of the Economy (till page 74)  <b>ECONOMICS:</b> Ch. 5 Consumer Rights
<b>NOVEMBER</b>	<b>REVISION</b>
<b>DECEMBER</b>	<b>PRE BOARDS</b>
<b>JANUARY</b>	<b>REVISION+PREBOARDS</b>

[Geography Chapter 7 (pages 75 to 83) is included in syllabus covered as IDP as per CBSE.]

**PORTION FOR:**

**PERIODIC ASSESSMENT 1**      GEOGRAPHY – RESOURCES AND DEVELOPMENT  
ECONOMICS – DEVELOPMENT

**PERIODIC ASSESSMENT 2**      GEOGRAPHY – MINERALS AND ENERGY RESOURCES  
ECONOMICS – GLOBALISATION AND THE INDIAN ECONOMY

**HINDI**

<b>MONTH</b>	<b>TOPIC</b>	
<b>अप्रैल</b>	<b>साहित्य</b>	नेताजी का चश्मा - स्वयं प्रकाश, सूरदास, संगतकार - मंगलेश डबराल
	<b>व्याकरण</b>	रचना के आधार पर वाक्य भेद, पत्र
<b>मई</b>	<b>साहित्य</b>	माता का अँचल- शिवपूजन सहाय, निराला (उत्साह, अट नहीं रही है),
	<b>व्याकरण</b>	वाच्य, अपठित गद्यांश, अपठित काव्यांश
<b>जुलाई</b>	<b>साहित्य</b>	बालगोबिन भगत - रामवृक्ष बेनीपुरी, <b>आत्मकथ</b> - कवि जय शंकर प्रसाद , नागार्जुन (यह दंतुरित मुसकान , फ़सल ), संस्कृति- भदंत आनंद कौसल्यायन
	<b>व्याकरण</b>	पद परिचय, , अलंकार - अर्थालंकार - उपमा. रूपक, उत्प्रेक्षा , अतिशयोक्ति , मानवीकरण , स्ववृत्त लेखन - रोजगार से सम्बंधित रिक्तियों के लिए, औपचारिक ई- मेल

अगस्त	साहित्य	मैं क्यों लिखता हूँ -अज्ञेय, नौबत खाने में इबादत- यतीन्द्र मिश्र, तुलसीदास (राम ,लक्ष्मण ,परशुराम संवाद ),
	व्याकरण	विज्ञापन लेखन,अनुच्छेद लेखन,शुभकामना सन्देश लेखन पर्व- त्योहारों एवं विशेष अवसरों पर दिये जाने वाले सन्देश
सितम्बर	साहित्य	एक कहानी यह भी - <b>मन्नू भंडारी</b> , साना साना हाथ जोड़ि - मधु कांकरिया, , लखनवी अंदाज़ - यशपाल
	व्याकरण	पुनरावृत्ति
अक्टूबर	पुनरावृत्ति	
नवम्बर	बोर्ड परीक्षा	
दिसम्बर	बोर्ड परीक्षा	
जनवरी	बोर्ड परीक्षा	

### 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