

**AALAYA ACADEMY**

**GRADE 10 CURRICULUM (ACADEMIC SESSION: 2024 – 2025)**

**SUBJECT: ENGLISH**

**BOOK: NCERT TEXTBOOK – FIRST FLIGHT**

**SUPPLEMENTARY READER – FOOT PRINTS WITHOUT FEET**

MONTH	CONTENT	LEARNING OUTCOMES	ACTIVITIES
<p><b>APRIL</b></p>	<p>LITERATURE –</p> <p>Unit-.1:Lesson - A Letter to God. Poem-1A : Dust of Snow.Poem-1B: Fire and Ice</p> <p>Unit-.2:Lesson- Nelson Mandela: Long Walk to Freedom. Poem- 2 : A Tiger in the Zoo.</p> <p>S / R Topic: CH.1.A Triumph of Surgery. CH.2.The Thief’s Story.</p> <p>Gr: Modals, Determiners.</p> <p>Subject – Verb concord</p> <p>Analytical Paragraph writing.</p>	<p>To read both fiction and nonfiction stories with understanding for pleasure and enjoyment in order to demonstrate ability to discuss about these with comprehension and reasoning skills</p> <p>To Identify and appreciate significant literary elements such as figurative language – metaphor, imagery, symbol, simile, intention / point of view, rhyme scheme, etc. in order to demonstrate understanding of their significance in literature and narratives.</p> <p>To collect evidences and discusses in groups for reading autobiographies, history and science based literary texts in order to demonstrate comprehension and critical thinking skills.</p> <p>To understand the</p>	<p>Design a poster</p> <p>Creative writing=pg-27</p> <p>Speaking – pg.11 &amp; 26</p> <p>Group discussion pg-30</p> <p>Seminar-</p>

		<p>importance of freedom</p> <p>To know that a determiner appears before a noun to help us identify which person or thing the sentence is about</p> <p>To Identify the singular and plural subjects and verbs in sentences</p> <p>*To Recall and practice more exercises.</p> <p>To identify the essential elements of a paragraph • compose an effective paragraph</p>	
<b>MAY</b>	<p>LITERATURE –</p> <p>UNIT-3 : Lesson – His First Flight &amp; Black Aeroplane.. Poem- 3.A How to tell wild Animals. Poem – 3 B The Ball Poem</p> <p>UNIT- 4 : Lesson – From the Diary of Anne Frank. Poem – 4 Amanda!</p> <p>Unit- 5: Lesson – A Baker from Goa &amp; Coorg.</p> <p>S / R Topic: CH.3.The Midnight visitor CH.2.A question of trust.</p> <p>Gr- Reported Speech</p> <p>Formal Letter Writing (Editor &amp; complaint)</p>	<p>To Identify some wild animals with their peculiarities • enjoy and appreciate humorous poems • form imagery • admire bounty of nature</p> <p>To identify the connection to words or phrases that resonate with other things. • learn and accept loss of something they love</p> <p>To read aloud with appropriate pronunciation and pause. • Identify relationships between characters and conflicts between them</p> <p>To understand the ardent desire of every child to enjoy the beauty of the dreamy world of childhood. • depict the state of a little girl’s mind. • learn the use of imperatives • be specific in reflection, expression and</p>	<p>Presentation – pg;36</p> <p>Writing a short composition – pg;36</p> <p>Speaking – Narrating an experience pg;41</p> <p>Speaking – pg;58</p> <p>Diary writing pg-59</p> <p>Listening task –pg: 59</p>

		<p>individual opinion and deeper understanding of Amanda</p> <p>To recognize the difference between direct and indirect speech</p>	
<b>JUNE</b>	<p>LITERATURE-</p> <p>Unit – 5 Tea from Assam. Poem -5 The trees</p> <p>S / R Topic: CH.5.Foot prints without feet CH.6.The making of a scientist</p> <p><b>PERIODIC- 1</b></p>	<p>To understand pen – portrait of a traditional Goan village baker • know how popular tea has become as a beverage in the world. • enhance their knowledge about the geography of Coorg</p> <p>To understand that God’s creation is a composite phenomenon trees, forests, animals and other agencies of nature are interlinked.</p>	<p>Group discussion pg;67</p> <p>Writing – pg;76</p>
<b>JULY</b>	<p>LITERATURE-</p> <p>Unit- 6: Lesson – Mijbil the Otter. Poem – 6 Fog</p> <p>Unit- 7 Lesson- Madam Rides the Bus. Poem – The Tale of Custard the Dragon.</p> <p>S / R Topic: CH.7.The Necklace CH-8 Bholi</p> <p><b>PERIODIC-II</b></p>	<p>To understand that we should take care of our pets and be responsible towards them • learn to be responsible towards other life forms</p> <p>To understand the powerful nature and worth of natural occurrences • understand change is unavoidable</p> <p>To understand the feelings of an individual • think about an alternative ending to the story • use new words and phrases in expression.</p>	<p>Descriptive writing – pg;92</p> <p>Tickets collage – pg;106</p>
<b>AUGUST</b>	<p>LITERATURE-</p> <p>Unit- 8 The Sermon at Benares. Poem – 8 For Anne Gregory.</p> <p>Unit- 9 Lesson- The Proposal.</p>	<p>To have spiritual outlook • learn the fact that death is the ultimate truth in the world.</p> <p>To help them identify the language effects that result</p>	<p>Writing – pg;116</p> <p>Role play { Enact the proposal }</p>

	S/R CH.9.The book that saved the Earth	from external conflict.	
<b>SEPTEMBER</b>	<b>HALF- YEARLY EXAMINATION</b>		
<b>OCTOBER</b>	<b>PERIODIC-III</b>		
<b>NOVEMBER</b>	<b>GRAMMAR &amp; COMPOSITION</b> <b>1 MARK &amp; 5 MARKS TEST</b>		
<b>DECEMBER</b>	<b>PRE BOARD – I</b> <b>PRE BOARD -II</b>		
<b>JANUARY</b>	<b>PRE BOARD – III</b> <b>PRE BOARD - IV</b>		
<b>FEBRUARY</b>	<b>PRE BOARD – V</b> <b>PRE BOARD -VI</b>		
<b>MARCH</b>	<b>BOARD EXAMINATION</b>		

**AALAYA ACADEMY**  
**GRADE 10 CURRICULUM ( ACADEMIC SESSION : 2024 – 2025)**  
**SUBJECT : TAMIL**  
**BOOK : TAMILNADU GOVERNMENT**

MONTH	CONTENT	LEARNING OUTCOMES	ACTIVITIES
<b>APRIL</b>	<p>இயல்-1: செய்யுள் 1: தமிழோவியம் இயல்:1. உரைநடை: செய்யுள் 2: இரட்டுறமொழிதல் விரிவானம்: உரைநடையின் அணிநலன்கள் இலக்கணம் : எழுத்து, சொல் இயல்:2. உரைநடை: கேட்கிறதா என்குரல்! செய்யுள் 1: காற்றே வா! செய்யுள் 2: முல்லைப்பாட்டு விரிவானம்: புயலிலே ஒரு தோணி இலக்கணம் : தொகைநிலைத்தொடர்கள்</p>	<p>மையக்கருத்தை எடுத்து உரைத்தல்,மொழியிலுள்ள வகைப்படுத்தப்பட்ட சொல்வளங்களைச் சொற்களின் வாயிலாகப் பேச்சிலும் எழுத்திலும் இடமறிந்து கையாளுதல். உரைநடையிலுள்ள அணிநலன்களை உள்வாங்கிக்கொண்டு நயமிகு தொடர்களை உருவாக்கி வெளிப்படுத்துதல். மொழி தனித்தும் தொடர்ந்தும் பொருள் தரும் நுட்பத்தை அறிந்து பயன்படுத்துதல். காற்றுமாசுபாடு குறித்துக் கலந்துரையாடி விழிப்புணர்வுபெறுதல்.</p>	<p>நீங்கள் வாழும் பகுதியிலுள்ள எவையேனும் ஐந்து பயிர்வகைச் சொற்களுக்கான படத்தொகுப்பை உருவாக்குக.  தூய்மையான காற்றைப் பெறுவதற்குமேற்கொள்ள வேண்டிய வழிமுறைகள் குறித்துப்படத்தொகுப்பு உருவாக்குக.</p>
<b>MAY</b>	<p>இயல்:3. உரைநடை:விருந்து போற்றுதல்! செய்யுள் 1: காசிக்காண்டம் செய்யுள் 2: மலைப்படுகடாம் விரிவானம்: கோபல்லபுரத்து மக்கள் இலக்கணம் : தொகைநிலைத்தொடர்கள்</p>	<p>நம் பண்பாட்டுக்கூறுகளுள் ஒன்றான விருந்தோம்பலின் மாண்பை உணர்ந்து பெருமிதத்துடன் பின்பற்றுதல்.உடலை மட்டும் வளர்க்கும் உணவுகளைத் தவிர்த்தல் குறித்தும் உயிரை உணர்வை வளர்க்கும் உணவுகளைக் குறித்தும் செய்திகளை அறிந்து வெளிப்படுத்துதல் மொழிப் பயன்பாட்டில் தொகைநிலைத்தொடர்களின் வகைகளை அறிந்து பயன்படுத்துதல்.</p>	<p>உணவு, விருந்து சார்ந்த பழமொழிகளையும் விழிப்புணர்வுத்தொடர்களையும் திரட்டி, அகரவரிசைப்படுத்தி வகுப்பறையில் காட்சிப்படுத்துக.</p>
<b>JUNE</b>	<p>இயல்:4. உரைநடை:செயற்கை</p>	<p>வளர்ந்து வருகின்ற</p>	<p>செயற்கை நுண்ண</p>

	<p>நுண்ணறிவு செய்யுள் 1: பெருமாள் திருமொழி செய்யுள் 2: பரிபாடல் விரிவானம்:விண்ணைத்தாண்டிய தன்னம்பிக்கை இலக்கணம் : பொது</p> <p><b>PERIODIC-1</b></p>	<p>தொழில்நுட்பங்கள் நம் மொழியில் திறம்படச் சொல்லப்படும் பாங்கறிந்து மொழித்திறனையும் தொழில்சார் கருத்துகளையும் புதுப்பித்தல்.அறிவியல் கருத்துகள் உட்பொதிந்துள்ள செய்யுள்களின் கருத்து வெளிப்பாட்டுத்திறனைப் படித்துணர்ந்து எதிர்வினையாற்றல்.உரை யாடல் வடிவில் கருத்துகளை வெளிப்படுத்தும் திறன்பெறுதல். இலக்கணப் பிழையற்ற தொடரமைப்புகளைத் தெரிந்துகொண்டு பயன்படுத்துதல்.</p>	<p>றிவைப் பயன்படுத்தும் வணிக நிறுவனங்கள் சில இயங்கி வருகின்றன.செயற்கை நுண்ணறிவைப் பயன்படுத்தும் ரோபோக்களை உருவாக்கும் நிறுவனங்கள் சில உலகினில் இருகின்றன. அவற்றைப் பற்றிய படங்களுடன் குறிப்பு எழுதி வருக.</p>
<p><b>JULY</b></p>	<p>இயல்:5. உரைநடை:மொழிபெயர்ப்பு செய்யுள் 1: நீதிவெண்பா செய்யுள் 2: திருவிளையாற்புராணம் விரிவானம்:புதிய நம்பிக்கை இலக்கணம் : வினா,விடைவகைகள்,பொருள் கோள்</p> <p><b>PERIODIC-2</b></p>	<p>மொழிபெயர்ப்பின் இன்றியமையாமையையு ம் நுட்பத்தையும் உணர்ந்து மொழிபெயர்ப்புப் பகுதிகளைப் படித்தல், புதிய பகுதிகளைத் தேவைக்கேற்ப மொழிபெயர்த்தல்.கல்வி சார்ந்த கருத்துகளைச் செய்யுள் வாயிலாக அறியவும், சுவைக்கவும், இன்றைய கல்வியுடன் ஒப்பிடவும் அறிதல். படித்துப் பொருள் உணர்வதுடன் கருத்துகளைத்தொகுத்து வரிசைப்படுத்தி எளிமையாக வழங்கும் திறன் பெறுதல். பொருள் கொள்ளும் முறையறிந்து செய்யுளின் பொருளைப் பிரிந்து கொள்ளுதல்.</p>	<p>”பள்ளியைத் தூய்மையாக வைத்திருத்தல்”- குறித்த செயல்திட்ட வரைவு ஒன்றை உருவாக்கித் தலைமை ஆசிரியரின் ஒப்புதலுடன் நடைமுறைப்படுத்துக.</p>
<p><b>AUGUST</b></p>	<p>இயல்:6. உரைநடை:நிகழ்கலை செய்யுள் 1: பூத்தொடுத்தல் செய்யுள் 2: முத்துக்குமாரசாமிபிள்ளைத்தமிழ் செய்யுள் 3: கம்பராமாயணம் விரிவானம்:பாய்ச்சல் இலக்கணம் : அகப்பொருள்</p>	<p>தமிழர்தம் நிகழ்கலைகளின் மேன்மையறிந்து, அவற்றை வளர்க்கவும் நிலைபெறச்செய்யவும் தங்களின் பங்களிப்பை நல்குதல். எளிய</p>	<p>பல்வேறு நிகழ்கலைகளின் ஒளிப்படங்களைத் தொகுத்து வகுப்பறையில் கண்காட்சி அமைக்க.</p>

	இலக்கணம் செய்யுள் 4: திருக்குறள்	சொற்களும் கருத்துகளும் கவிதைப்பொருளாகும் திறமறிந்து தானே கற்றல்.கவிநயம் நனிசொட்டச் சொட்டப் பாடப்பட்ட பாடல்களைக் கற்று மகிழ்வதுடன் அவை போன்ற பாடல்களைத் தேடித் தேர்ந்து படித்தல், படைத்தல். சந்த நயமும் கொண்ட பாடல்கள் மனனத்திற்கு எளிதானவை. அவற்றைப் பயின்று நாநெகிழ், நாபிறழ் பயிற்சிகளில் ஆற்றல் பெறுதல்.	
SEPTEMBER	இயல்:6. விரிவானம்:பாய்ச்சல் இலக்கணம் : அகப்பொருள் இலக்கணம் செய்யுள் 4: திருக்குறள்  <b>HALF-YEARLY REVISION AND EXAMINATION</b>	கதைகளைப் படித்து மையக் கருத்துணர்தல், கதைகள் குறித்துக் கலந்துரையாடல். தமிழரின் அகப்பொருள் இலக்கணம் அறிதல்வழி இயற்கையுடன் ஒன்றியிருந்த வாழ்க்கை முறைகளைப் பிரிந்து கொள்ளுதல்.	காட்சியைக்கண்டு கவினுற எழுதுக.
OCTOBER	PERIODIC-3		
NOVEMBER	இலக்கணம் , பொதுக்கட்டுரை, கடிதம், துணைப்பாடக்கட்டுரை திருப்புதல்		
DECEMBER	PRE BOARD EXAM-1 PRE BOARD EXAM-2		
JANUARY	PRE BOARD EXAM-3 PRE BOARD EXAM-4		
FEBRUARY	PRE BOARD EXAM-5 PRE BOARD EXAM-6		
MARCH	YEARLY REVISION AND EXAMINATION		

**AALAYA ACADEMY  
GRADE 10 CURRICULUM**

**(ACADEMIC SESSION: 2024 – 2025) SUBJECT: MATHS**

**BOOK: NCERT TEXTBOOK – MATHEMATICS**

MONTH	CONTENT	LEARNING OUTCOMES	ACTIVITIES
APRIL	<p>Chapter -5 – ARITHMETIC PROGRESSION</p> <p>Chapter-1 – REAL NUMBERS</p>	<p>Recognises the pattern in a given series.</p> <ul style="list-style-type: none"> <li>• Understands the term common difference and its importance in AP.</li> <li>• Identifies the first term and common difference to form an AP.</li> <li>• Applies the formulas and calculates n<sup>th</sup> term of an AP and the sum up to nth term of an AP.</li> <li>• Develops strategies to apply the concepts of AP to daily life situations.</li> </ul> <p>Generalises properties of numbers and relations among them.</p> <ul style="list-style-type: none"> <li>• Evolves results - Euclid's Division Algorithm and Fundamental Theorem of Arithmetic and applies them to solve problems related to real life context.</li> <li>• Proves <math>\sqrt{2}</math>, <math>\sqrt{3}</math> etc. as irrational numbers.</li> <li>• Justifies the condition on rational numbers to be terminating decimals or non-terminating repeating decimals</li> </ul>	<p>To identify Arithmetic Progressions in some given lists of numbers</p> <p>Finding HCF &amp; LCM</p>
MAY	<p>Chapter -2 – POLYNOMIALS</p> <p>Chapter-3- PAIR OF LINEAR EQUATIONS</p>	<p>Recalls general form of linear and quadratic polynomials and finds zeros of polynomial by graph, where it intersects the x-axis.</p> <ul style="list-style-type: none"> <li>• Creates relationship between the zeros of the quadratic polynomial and its coefficients.</li> <li>• Calculates zeros of the polynomial of degree more than 2.</li> </ul> <p>Recalls and defines general form of linear equations of two variables and expresses different pair of linear equations in two variables in general form.</p> <ul style="list-style-type: none"> <li>• Draws graph of linear equations of two variables to solve word problems.</li> <li>• Determines whether ordered pair (x, y) is a solution of pair of equations.</li> <li>• Understands to solve pair of equations by the methods of</li> </ul>	<p>To draw the graph of a quadratic polynomial and observe:</p> <ul style="list-style-type: none"> <li>(i) The shape of the curve when the coefficient of <math>x^2</math> is positive.</li> <li>(ii) The shape of the curve when the coefficient of <math>x^2</math> is negative.</li> <li>(iii) Its number of zeroes.</li> </ul> <p>To verify the conditions</p>



		Substitution and Elimination. • Verifies the type of solution of equations by using three conditions. • Solves word problems of daily life situations.	of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.
JUNE	Chapter – 4- QUADRATIC EQUATIONS  Chapter – 7- COORDINATE GEOMETRY  <b>PERIODIC -I</b>	<p>Recalls the concept of quadratic polynomial and correlates with quadratic equation. • Represents the equation in general form as <math>ax^2 + bx + c = 0</math> where <math>a, b, c \in \mathbb{R}</math> and <math>a \neq 0</math> • Finds roots of quadratic equations by different methods - Factorisation and Completing the Square. • Calculates discriminant to find nature of the roots. • Solves quadratic equations by quadratic formula.</p> <p>Recalls the Cartesian plane and locates points in it. • Derives distance and section formulas and applies them to calculate a) Distance between two points in a plane. b) The coordinates of a point which divides the line segment joining of two points internally in the given ratio. • Finds the coordinates of the mid-point and checks the collinearity of the points by section formula.</p>	<p>To obtain the solution of a quadratic equation (<math>x^2 + 4x = 60</math>) by completing the square geometrically.</p> <p>To verify the distance formula by graphical method.</p>
JULY	Chapter-6- TRIANGLES  <b>PERIODIC -II</b>	<p>Identifies plane figures which are same in the shape but different in size. Defines similarity of two triangles and understands similarity rules AAA, SAS, SSS. Proves Basic Proportionality Theorem and its converse, then applies in problems. Understands the statement of area theorem and solves problems. □ Proves Pythagoras theorem by using similarity of triangles and applies the same. □ Proves Pythagoras theorem practically</p>	<p>To establish the criteria for similarity of two triangles To verify Basic Proportionality Theorem (Thales theorem).</p>
AUGUST	Chapter-8 Introduction to Trigonometry	<p>Determines all 6 trigonometric ratios w.r.t acute angle of a right triangle. □ Correlates 6 trigonometric ratios with ratio of two sides at a time of a right triangle and knows their names as - sine, cosine, tangent, cosecant, secant, cotangent. □ Computes the trigonometric ratios of standard angles. □ Proves trigonometric</p>	<p>Finding the trigonometric ratios</p>

	<p>Chapter- 9 Some Applications of Trigonometry</p>	<p>identities by using three fundamental identities.</p> <p>Recalls 6 trigonometric ratios. □ Visualises eye movement while observing an object. □ Acquires knowledge of line of sight, horizontal line which make angle of elevation and angle of depression. □ Draws figures of the problems by making use of angles of elevation and depression and applies trigonometric ratios to reach the solutions. □ Applies the concept of trigonometry in solving problems of daily life context like finding heights of different structures and distances between them.</p> <p>Skills</p>	<p>To find the height of a building using a clinometer.</p>
SEPTEMBER	<p>Chapter- 10 Circles</p> <p>Chapter 12 Areas Related to Circles</p> <p><b>HALF YEARLY</b></p>	<p>Demonstrates three possibilities for intersection of a line and a circle in a plane and then defines tangent and secant to circle □ Understands the results of circle and proves the theorem - 2 tangents drawn from external point are equal in length, geometrically and practically. □ Applies the theorems in various problems.</p> <p>Recalls the concept of circumference of circle and solves problems of daily life situations.</p> <p>Identifies and applies the terms major/minor sector, major/minor segment, angle subtended by the arc at the centre. □ Applies the formulas of area of sector, segment and length of an arc in the problems. □ Calculates area of combined plane figures</p>	<p>To verify experimentally that the tangent at any point to a circle is perpendicular to the radius through that point.</p> <p>To obtain formula for area of a circle experimentally.</p>
OCTOBER	<p>Chapter 14 Statistics</p> <p>Chapter 13 Surface</p>	<p>Recalls the basic terms of Statistics. □ Calculates mean of grouped data by different methods - direct, assumed mean method. □ Determines the modal class and median class to find mode and median of grouped data respectively. □ Applies formulas of median and mode and solves problems of daily life situations.</p>	<p>To draw a cumulative frequency curve (or an ogive) of less than type.</p> <p>To obtain formula for area of a circle experimentally.</p>

	<p>Areas and Volumes</p> <p>Chapter 15 Probability</p> <p><b>PERIODIC -III</b></p>	<p>Recalls solid figures and formulas of their C.S.A, T.S.A and volumes. <input type="checkbox"/> Identifies combined solid figures. <input type="checkbox"/> Calculates surface area and volume of combined solid figures by using formulas and general understanding. <input type="checkbox"/> Transforms a solid shape to another solid and compares and analyses their surface area and volume. <input type="checkbox"/> Uses the concepts of S.A. and volume for variety of 3-D objects to apply in real life situations.</p> <p>Defines the different terms - outcome, event, elementary event, sure event, impossible event, complementary events etc. <input type="checkbox"/> Associates probability as a chance and uses formula to find probability of an event. <input type="checkbox"/> Verifies the sum of all probabilities of all the elementary events is 1. <input type="checkbox"/> Justifies that for any E, E' stands for not E and shows <math>P(E) + P(E') = 1</math>. <input type="checkbox"/> Validate the maximum and minimum values of probability i.e. <math>0 \leq P(E) \leq 1</math> <input type="checkbox"/> Applies the concepts to solve problems of daily life situations</p>	<p>To determine experimental probability of 1, 2, 3, 4, 5 or 6 by throwing a die 500 times and compare them with their theoretical probabilities.</p>
NOVEMBER	REVISION TEST	ONE MARK, TWO MARK, CASE BASED QUESTION	
DECEMBER		PRE BOARD –1 PRE BOARD –2	
JANUARY		PRE BOARD –3 PRE BOARD –4	
FEBRUARY		PRE BOARD –5 PRE BOARD –6	
MARCH		ANNUAL EXAMINATION	

# AALAYA ACADEMY

GRADE X CURRICULUM (ACADEMIC SESSION: 2024 – 2025)

SUBJECT: SCIENCE

BOOK: NCERT TEXTBOOK – SCIENCE

MONTH	CONTENTS	LEARNING OUTCOMES	ACTIVITIES
April	<b>CHAPTER 1 Chemical reactions and equations</b>	<ul style="list-style-type: none"> <li>Understand the concept of chemical reactions and their types</li> <li>Learn about the different types of chemical equations</li> <li>Understand the role of energy in chemical reactions</li> </ul>	<ul style="list-style-type: none"> <li>Demonstration of different types of chemical reactions</li> <li>Group activity to identify the reactants and products in different chemical equations</li> <li>Video on the role of energy in chemical reactions</li> </ul>
	<b>CHAPTER 5 LIFE PROCESSES</b>	<p>Students will know and understand: Different modes of nutrition.</p> <p>Define respiration and explain its importance in plants and animals.</p> <p>Define transportation and explain its importance in plants and animals.</p>	<p>Preparing a temporary mount of a leaf peel to show stomata .</p> <p>Experimentally show that carbon dioxide is given out during respiration.</p>
	<b>CHAPTER 11</b>	Understand	Determination of the equivalent resistance of two resistors when connected in series and parallel

	<b>Electricity</b>	<p>about excretion</p> <p>To make concept of electric charge, electric current and circuit clear to the students in an easy but interesting in manner .</p> <p>To show Textbook numerical problem related to the topic.</p>	
<b>MAY</b>	<p><b>CHAPTER 2 ACID, BASES AND SALTS</b></p> <p><b>CHAPTER 9 LIGHT – REFLECTION AND</b></p>	<p>Students will be able to :</p> <p>know about Chemical properties of acids , bases and salts .</p> <p>Know about various indicators.</p> <p>Know about pH and its importance .</p> <p>Know the practical applications of acids, bases and salts</p> <p>To enable learners to:</p> <ul style="list-style-type: none"> <li>● Identify the different types of behaviours of light.</li> </ul>	<p>Finding the pH of the following samples by using pH paper / universal indicator.</p> <ol style="list-style-type: none"> <li>i) Dilute HCl</li> <li>ii) Dilute NaOH solution</li> <li>iii) Dilute Ethanoic acid solution</li> <li>iv) Lemon juice</li> <li>v) Water</li> <li>vi) Dilute Hydrogen carbonate solution</li> </ol> <p>1. Determination of the focal length of :</p> <ol style="list-style-type: none"> <li>i) Concave mirror</li> <li>ii) Convex mirror</li> </ol> <p>2. Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence . Measure the angle of</p>

	<b>REFRACTION</b>	<ul style="list-style-type: none"> <li>• Understand the concept of Reflection and Refraction.</li> <li>• Determine the difference between Reflection and Refraction.</li> <li>• Learn about magnification, spherical mirrors, and lenses</li> </ul>	incidence , angle of refraction , angle of emergence and interpret the result.
<b>JUNE</b>	<b>CHAPTER 6 CONTROL AND COORDINATION</b>           <b>CHAPTER 3 METALS AND NON – METALS</b>           <b>CHAPTER 10 HUMAN EYE AND THE COLOURFUL WORLD</b>	<ul style="list-style-type: none"> <li>• Students will learn about the structure and arrangements of neurons. Reflex involuntary and voluntary actions. They will understand the concept of Human nervous system as well as chemical coordination in animals.</li> <li>• They will learn the plant responses and movements.</li> </ul> <p>To enable students to 1. Know about physical and chemical properties of metals, non metals, metalloids and various methods used for extraction. 2.Observe various reactions of metals and arrange them in order of reactivity’s 3. Relate concepts in daily life situation. Understand the concept of ionic bond formation. Understand the concept of ionic bond formation.</p>	i) To demonstrate the movement in plants independent of growth with the help of Mimosa. pudica and dependent of growth with the help of germination seed ii) To demonstrate response of the plant to the direction of light.  To carry out the following reactions and arrange the metals in increasing order of reactivity. 1,Fe with iron sulphate Copper sulphate .zinc sulphate, aluminium sulphate. 2. Cu with iron sulphate copper sulphate, zinc sulphate ,aluminium sulphate 3.Al with iron sulphate Copper sulphate. Zinc sulphate 2. To observe the metals like copper, iron, zinc and aluminium and study the properties like malleability, ductility, sonority and lusture. ,aluminium sulphate  Study of defects of vision with the help of spectacles used by different people in the surrounding To study deviation in path of light through prism.  1 .Differentiate between saturated and unsaturated compounds with the help of chemical test and categories the two as a better fuel. 2. Distinguish between ethanol and acetic acid with the help of chemical test and write down various reactions

<b>JULY</b>	<p><b>PERIODIC 1</b></p> <p><b>CHAPTER 4</b></p> <p><b>CARBON AND ITS COMPOUNDS</b></p>	<p>Students will be able to understand structure of eye and different parts of eye, ,terms related to human eye, defect of vision and their correction .</p> <p>To enable students</p> <ol style="list-style-type: none"> <li>1. To understand various properties of carbon compounds, cleaning action of soap, action of soap on hard and soft water.</li> <li>2. To apply concept in daily life.</li> <li>3 To differentiate between soap and detergent.</li> </ol>	<p>of ethanol and its effect on the society.</p> <ol style="list-style-type: none"> <li>1.To study the binary fission and budding in Amoeba and yeast through permanent slides.</li> <li>2.To study the parts of dicot seeds.</li> <li>3.To dissect the and study the parts of flower (unisexual and bisexual)</li> <li>4.To observe the T.S. of ovary and anther under microscope.</li> </ol>
	<p><b>CHAPTER 7</b></p> <p><b>HOW DO ORGANISM REPRODUCE?</b></p>	<p>student will learned about that reproduction at it basic level involves making copies of blue print of body design they will able to relate importance of variation .they will also learned various modes of reproductions.</p>	<p>To plot magnetic lines of force around a bar magnet.</p>
	<p><b>CHAPTER12</b></p> <p><b>MAGNETIC EFFECTS OF ELECTRIC CURRENT</b></p>	<p>students will learned about reproductive system and its working. They will learned various birth control measures to check population growth and S.T.Ds</p> <p>To understand meaning of term magnetic field, field lines, force on a current</p>	<ol style="list-style-type: none"> <li>1.Pedigree Analysis of individually for their family members- Height, Color of eye, Hair color, Blood group, Ear lobes, Eye disorder, diabetes .</li> <li>2.To flip the coin and to sketch a face with different traits using genetic trait chart.</li> </ol> <p>Find out from the library , internet or newspaper reports,which chemicals are responsible for the depletion of the ozone layer.</p>





<b>SEPTEMBER</b>	<b>HALF YEARLY</b>	<b>REVISION AND ASSESSMENT</b>	
<b>OCTOBER</b>	<b>PERIODIC - 3</b>	<b>REVISION AND ASSESSMENT</b>	
<b>NOVEMBER</b>	<b>REVISION TEST</b>	<b>REVISION AND ASSESSMENT</b>	
<b>DECEMBER</b>	<b>PRE BOARD – I</b> <b>PRE BOARD – II</b>	<b>REVISION AND ASSESSMENT</b>	
<b>JANUARY</b>	<b>PRE BOARD – III</b> <b>PRE BOARD – IV</b>	<b>REVISION AND ASSESSMENT</b>	
<b>FEBRUARY</b>	<b>PRE BOARD – V</b> <b>PRE BOARD – VI</b> <b>ANNUAL EXAMINATION</b>	<b>REVISION AND ASSESSMENT</b>	

**AALAYA ACADEMY**

**GRADE 10 CURRICULUM (ACADEMIC SESSION: 2024 – 2025)**

**SUBJECT: SOCIAL SCIENCE**

**BOOK: NCERT TEXTBOOKS – India & the Contemporary World – II, Contemporary India  
Part II, Understanding Economic Development, Democratic Politics II.**

MONTH	CONTENT	LEARNING OUTCOMES	ACTIVITIES
<b>APRIL</b>	Brief discussion on the disciplines of social science.	Timeline of the events around the world. Important events that influenced the course of history.	
<b>JUNE</b>	<p style="text-align: center;"><b>History</b></p> <p>Chapter 1 The Rise of Nationalism in Europe</p> <p style="text-align: center;"><b>Geography</b></p> <p>Chapter 1 Resources and Development</p> <p style="text-align: center;"><b>Civics</b></p>	<ul style="list-style-type: none"> <li>• Infer how the French Revolution had an impact on the European countries in the making of nation state.</li> <li>• Comprehend the nature of the diverse social movements of the time.</li> <li>• Analyse and infer the evolution of the idea of nationalism which led to the formation of nation states in Europe and elsewhere.</li> <li>• Evaluate the reasons which led to the First World War.</li> </ul> <ul style="list-style-type: none"> <li>• Enumerates how the resources are interdependent, justify how planning is essential in judicious utilization of resources and the need to develop them in India.</li> <li>• Infers the rationale for development of resources.</li> <li>• Analyse and evaluate data and information related to non-optimal land, utilization in India Appraise and infer the need to conserve all resources available in India.</li> <li>• Suggest remedial measures for optimal utilization of underutilized resources.</li> </ul>	<p>Map activity familiarising the location of various places studying the map of Europe after the Congress of Vienna 1815 and locating important places on the political outline map of Europe.</p> <p>Brainstorming on how the resources are interdependent in nature and the need to develop them in India and present in the form of a Venn diagram.</p>

	<p>Chapter 1 Power Sharing</p> <p style="text-align: center;"><b>Economics</b></p> <p>Chapter 1 Development</p> <p><b>PERIODIC- 1</b></p>	<ul style="list-style-type: none"> <li>• Enumerate the need for power sharing in democracy.</li> <li>• Analyse the Challenges faced by countries like Belgium and Sri Lanka ensuring effective power sharing.</li> <li>• Compare and contrast the power sharing of India with Sri Lanka and Belgium.</li> <li>• Summarize the purpose of power sharing in preserving the unity and stability of a country.</li> </ul> <ul style="list-style-type: none"> <li>• Enumerate and examine the different processes involved in setting developmental Goals that helps in nation building.</li> <li>• Analyse and infer how the per capita income depicts the economic condition of the nation.</li> <li>• Evaluate the development goals that have been set for the nation by the Planning commission of India -with specific reference to their efficacy, implemental strategies, and relevance to current requirements of the nation.</li> <li>• Compare and contrast the per capita income of some countries and infer reasons for the variance.</li> <li>• Analyses the multiple perspectives on the need of development.</li> </ul>	<p>Classroom discussion on challenges faced by Belgium&amp; Sri Lanka in ensuring effective power sharing.</p> <p>Graphic organizer to compare the t relation between HDI (Human Development Index) and PCI (Per Capita National Income)</p>
<b>JULY</b>	<b>History</b>	<p>Chapter 2 Nationalism in India</p> <ul style="list-style-type: none"> <li>• Illustrate various facets of Nationalistic movements that ushered in the sense of Collective Belonging.</li> <li>• Evaluate the effectiveness of the strategies applied by Gandhi and other leaders in the movements organised by him.</li> <li>• Summarise the effects of the First</li> </ul>	<p>Make a sequence chart of the Events in the Nationalism phase in India.</p>

	<p style="text-align: center;"><b>Geography</b></p> <p>Chapter 2 Forest and Wildlife Resources</p>	<p>World War that triggered the two defining movements (Khilafat &amp; Non Cooperation Movement) in India</p> <ul style="list-style-type: none"> <li>• Examine the importance of conserving forests and wildlife and their interdependency in maintaining the ecology for the sustainable development of India.</li> <li>• Analyse the role of grazing and wood cutting in the development and degradation.</li> <li>• Summarizes the reasons for conservation of biodiversity in India under sustainable development.</li> </ul>	<p>Collect pictures of Endangered and Extinct species in India so far and make a collage.</p>
	<p style="text-align: center;"><b>Civics</b></p> <p>Chapter 2 Federalism</p>	<ul style="list-style-type: none"> <li>• Infer and appreciate how federalism is being practised in India.</li> <li>• Analyse and infer how the policies and politics that has strengthens federalism in practice.</li> </ul>	<p>Make a small Booklet on Federalism.</p>
	<p style="text-align: center;"><b>Economics</b></p> <p>Chapter 2 Sectors of the Indian Economy</p>	<ul style="list-style-type: none"> <li>• Analyses and infer how the economic activities in different sectors contribute to the overall growth and development of the Indian economy.</li> <li>• Propose solutions to identified problems in different sectors based on their understanding.</li> <li>• Summarize how the organised and unorganised sectors are providing employment and the challenges faced by them.</li> <li>• Enumerates the role of unorganised sector in impacting PCI (Per Capita Income) currently and proposes suggestive steps to reduce the unorganised sector for more</li> </ul>	<p>Collect Newspaper article where organise and unorganised sectors are providing employment and make a scrap book.</p>

	<p style="text-align: center;"><b>Geography</b></p> <p>Chapter 3 Water Resources</p> <p style="text-align: center;"><b>Civics</b></p> <p>Chapter 3 Gender, Religion and Caste</p> <p style="text-align: center;"><b>History</b></p> <p>Chapter 3 The Making of the global world</p> <p style="text-align: center;"><b>PERIODIC- II</b></p>	<p>productive contributions to GDP.</p> <ul style="list-style-type: none"> <li>• Enumerates and infer the essential role of the Public and Private sectors he present trends of PPP and efficacy of the initiative.</li> <li>• Examine the reasons for conservation of water resource in India.</li> <li>• Analyse and infer how the multipurpose projects are supporting the requirement of water in India.</li> <li>• Examines the role and differences of Gender, religion and Caste in practicing Democracy in India.</li> <li>• Analyses the different expressions based on these differences are healthy or otherwise in a democracy.</li> <li>• Summarize the changes that transformed the world in terms of economy, political, cultural and technological areas.</li> <li>• Depict the global interconnectedness from the Pre modern to the present day. Enumerate the destructive impact of colonialism on the livelihoods of colonised people</li> </ul>	<p>Prepare a PPT to Summarize the roles of Multipurpose projects in supporting the water requirement of India.</p> <p>Graphic method to analyse and infer how different expressions based on differences in Gender, Religion and Caste are healthy or unhealthy in a democracy.</p> <p>Inter disciplinary Project with chapter 7 of Geography: Lifelines of National Economy and chapter 4 of Economics: Globalization and the Indian Economy.</p>
<p><b>AUGUST</b></p>	<p style="text-align: center;"><b>Geography</b></p> <p>Chapter 4 Agriculture</p>	<ul style="list-style-type: none"> <li>• Examine the crucial role played by agriculture in our economy and society.</li> <li>• Analyses the challenges faced by the farming community in India.</li> </ul>	<p>Use of graphic organizers to distinguish the traditional and modern farming methods.</p>

	<p>Chapter 5 Minerals and Energy Resources</p>	<ul style="list-style-type: none"> <li>• Identifies and summarizes various aspects of agriculture, including crop production, types of farming, modern agricultural practices, and the impact of agriculture on the environment.</li> <li>• Analyses the challenges faced by the farming community in India.</li> <li>• Differentiates between the conventional and nonconventional sources of energy.</li> <li>• Analyses the importance of minerals and natural resources for economic development of the country.</li> <li>• Suggests strategies for sustainable use of natural resources</li> </ul>	<p>Prepare of flow chart to Differentiate between the conventional and non-conventional sources of energy.</p>
	<p style="text-align: center;"><b>Economics</b></p> <p>Chapter 3 Money and Credit</p>	<ul style="list-style-type: none"> <li>• Enumerate how money plays as a medium exchange in all transactions of goods and services since ancient times to the present times.</li> <li>• Analyse and infer various sources of Credit.</li> <li>• Summarizes the significance and role of self-help groups in the betterment of the economic condition of rural people/ women.</li> </ul>	<p>Make a report on Self Help Groups as a Reporter to a famous Newspaper.</p>
	<p>Chapter 4 Globalisation and the Indian Economy</p>	<ul style="list-style-type: none"> <li>• Enumerate the concept of globalization and its definition, evolution, and impact on the global economy.</li> <li>• Evaluate the key role of the key major drivers of globalization and their role in shaping the global economic landscape in various countries.</li> </ul>	<p>Make a power point presentation on Globalisation and its Effects.</p>
	<p><b>Civics</b></p> <p>Chapter 4</p>	<ul style="list-style-type: none"> <li>• Comprehends the significance of role of G20 and its significance in the light of India's present role.</li> </ul>	<p>Prepare flow chart to</p>

	Political Parties	<ul style="list-style-type: none"> <li>• Understand the process of parties getting elected.</li> <li>• Know the significance of right to vote and exercise the duties as citizen of nation.</li> <li>• Examine the role, purpose and no. of Political Parties in Democracy</li> </ul>	bring out the role, purpose and no. of Political Parties.
<b>SEPTEMBER</b>	<p style="text-align: center;"><b>History</b></p> <p>Chapter 4 The Age of Industrialisation</p> <p style="text-align: center;"><b>Geography</b></p> <p>Chapter 6 Manufacturing Industries</p> <p style="text-align: center;"><b>Civics</b></p> <p>Chapter 5 Outcomes of Democracy</p>	<ul style="list-style-type: none"> <li>• The growth of new ideas and practices across the world (including humanism, mercantilism, industrialisation, scientific developments and explorations, imperialism, colonialism, the rise of new nation-states across the world, and various technologies including the most current) and how they affected the course of world history.</li> <li>• Enumerates the impact of manufacturing industries on the environment and develop strategies for sustainable development of the manufacturing sector.</li> <li>• Differentiates between various types of manufacturing industries based on their input materials, processes, and end products, and analyse their significance in the Indian economy.</li> <li>• Analyses the relation between the availability of raw material and location of the industry.</li> </ul>	<p>Periodic Assessment only.</p> <p>Utilizes the textual information (data given through various maps/ graphs) to enumerate the impact of manufacturing industries on the environment and develop strategies for sustainable development of the manufacturing sector.</p> <p>Graphic organizer to</p>

	<b>HALF YEARLY EXAMINATION</b>	Enumerates how a success of democracy depends on quality of government, economic wellbeing, in equality, social differences, conflict, freedom and dignity.	enumerate how a success of democracy depends on quality of government, economic wellbeing, in equality, social differences, conflict, freedom and dignity.
<b>OCTOBER</b>	<p align="center"><b>History</b></p> <p>Chapter 5</p> <p align="center">Print Culture and the Modern World</p> <p align="center"><b>Geography</b></p> <p>Chapter 7</p> <p>Lifelines of National Economy</p> <p align="center"><b>PERIODIC III</b></p>	<ul style="list-style-type: none"> <li>Enumerate the development of Print from its beginnings in East Asia to its expansion in Europe and India.</li> <li>Comment on the statement that the print revolution was not just a way of producing book but profound transformation of people.</li> <li>Compare and contrast the old tradition of handwritten manuscripts versus the print technology. Summarise the role of Print revolution and its impact.</li> </ul> <p>Map work only</p>	<p>Prepare a Power point presentation on the chapter Print Culture.</p> <p>Map work only</p>
<b>NOVEMBER</b>	<b>Revision</b>		
<b>DECEMBER</b>	<p><b>PRE BOARD – I</b></p> <p><b>PRE BOARD -II</b></p>		
<b>JANUARY</b>	<p><b>PRE BOARD – III</b></p> <p><b>PRE BOARD -IV</b></p>		
<b>FEBRUARY</b>	<p><b>PRE BOARD –V</b></p> <p><b>PRE BOARD -VI</b></p>		
<b>MARCH</b>	<b>YEARLY EXAMINATION</b>		