

# CLASS X

## (2025-2026)

# ENGLISH LANG. AND LIT. (184)

SUBJECT	MONTH	CHAPTERS	GRAMMAR AND WRITING	ACTIVITY/ PROJECT
<b>ENGLISH LANG. &amp; LIT. (184)</b>	<b>APRIL</b>	1.A Letter to God 2.Dust of Snow 3.Fire and Ice (Poem) 4.A Triumph of Surgery	Subject Verb Concord Letter of Enquiry	Create a tag line / slogan / catchphrase for the poem.  <b>OR</b> Collect war photographs depicting damage and destruction caused by wars. Use them to build a photo journal with annotations and commentary
	<b>MAY</b>	1.Nelson Mandela: Long walk to Freedom 2.A Tiger in the Zoo 3.The thief's Story 4. The Midnight Visitor	Tenses Letter for Placing Order	Prepare a project on ANY one of the following topics: 1. '10 South African Freedom Fighters (Who Aren't Nelson Mandela) That Everyone Should Know' 2. 'Black Americans and their fight against discrimination' 3. 'Women and their fight for equality' 4. 'The Vietnamese and their fight for independence' 5. 'Indonesian struggle for independence from the Netherlands'
	<b>JULY</b>	1.Two Stories about Flying 2. How to Tell Wild Animals 3.From The Diary of Anne Frank 4.The Ball Poem (Poem) 5. A Question of Trust 6. Footprint without Feet	1. Modals 2. Letter of Complaint 3. Letter to the Editor	Are zoos necessary for the protection or conservation of some species of animals? Are they useful for educating the public? Are there alternative to the zoos? Prepare a brief project on a species saved from extinction by conservation.
	<b>AUGUST</b>	1. A Glimpses of India 2. Mijbil The Otter 3. Amanda! (Poem) 4. The Making of A scientist 5. The Necklace 6. Fog (Poem)	Reported Speech (Command & request) Statements Questions Determiners Analytical Paragraph	You are the sales executive of a famous tea company and you have been asked to draft an advertisement for the product.  Draft the Advertisement. You can draw pictures or add photographs and make your advertisement colourful.
	<b>SEPTEMBER</b>	<b>HALF YEARLY EXAMINATION BEGINS</b>		
	<b>OCTOBER</b>	1.Madam Rides The Bus 2.The Sermon at Benaras 3.The Trees 4. The Tale of Custard The Dragon		<b>ART INTEGRATED ACTIVITY</b> Make a project on Monpa Mask and Thangka paintings of Arunachal Pradesh

		5. Bholi 6. The Book that Saved The Earth 7. The Proposal 8. For Anne Gregory (Poem)		Literary Terms
	NOVEMBER	PRE-BOARD I BEGINS		
	DECEMBER	PRE-BOARD II BEGINS		
	JANUARY	REVISION		

# **HINDI COURSE-A (002)**

विषय	माह	क्षितिज एवं कृतिका	व्याकरण एवं लेखन कार्य	रचनात्मक कार्य
हिंदी कोर्स-A (002)	अप्रैल	नेता जी का चश्मा (क्षितिज) पद (सूरदास)	रचना के आधार पर वाक्य के भेद	गतिविधि:-1 किसी स्वतंत्रता सेनानी का सचित्र जीवन परिचय लिखिए। 2- नारा लेखन
	मई	बाल गोंबिन भगत (क्षितिज) माता का आंचल	वाच्य	3-मृदा संरक्षण पर पत्र लिखो 4 हिंदी महीना के नाम चित्र सहित लिखिए
	जुलाई	लखनवी अंदाज (क्षितिज) राम लक्ष्मण परशुराम संवाद साना साना हाथ जोड़ि	अलंकार (अर्थालंकार) संदेश	5 कहानी लेखन 6 विज्ञापन 7 अपने बचपन की एक अविस्मरणीय घटना
	अगस्त	आत्मकथ्य एक कहानी यह भी (क्षितिज) मैं क्यों लिखता हूँ (कृतिका)	पद परिचय ईमेल	8 प्रकृति पर सचित्र कविता 9 अनुच्छेद 10 संदेश लेखन
	सितंबर	अर्द्धवार्षिक परीक्षा		
	अक्टूबर	नौबतखाने में इबादत (क्षितिज) यह दंतुरित-मुस्कान, फसल (कविता) संस्कृति (क्षितिज) संगतकार (कविता)	विज्ञापन, स्ववृत्त। औपचारिक अनौपचारिक पत्र अपठित गद्यांश पद्यांश	कल एकीकृत परियोजना:- अरुणाचल प्रदेश पर्यटन विभाग की तरफ से एक विज्ञापन बनाइए। वाक्य , वाच्य , अलंकार प्रपत्र “आवश्यकता ही अविष्कार की जननी है”। लेकिन क्या आज तक के सभी अविष्कार मनुष्य के लिए लाभदायक सिद्ध हुए? (वाद-विवाद)
	नवंबर	प्री-बोर्ड 1		
	दिसंबर	प्री-बोर्ड 2		
	जनवरी	REVISION		
	फ़रवरी	ANNUAL EXAMINATION BEGINS		

# SCIENCE

## (086)

Subject	Month	Chapters	Activity/Project
SCIENCE (086)	April	<u><b>BIOLOGY</b></u> <b>Chapter 5:</b> Life Processes Topic: Basic concept of nutrition and respiration in plants & animals	<b>ACTIVITY</b> Prepare a temporary mount of a leaf peel to show stomata  Sketch the human digestive system emphasizing the different digestive glands, and tabulate the different enzymes associated with breakdown of different food components. Experimentally show that carbon dioxide is given out during respiration.
		<u><b>PHYSICS</b></u> <b>Chapter 9:</b> Light – Reflection and Refraction Topic: Reflection of light, plane mirror, spherical mirrors, mirror formula, Refraction of light and Refractive index.	<b>ACTIVITY</b> To draw Ray Diagram for various position of objects for concave and convex mirror.
		<u><b>CHEMISTRY</b></u> <b>Chapter-1:</b> Chemical reactions and equations Balanced chemical, implications of a balanced chemical equation.	<b>Activity-</b> To study endothermic and exothermic reactions. (In the laboratory)
	May	<u><b>BIOLOGY</b></u> <b>Chapter 5:</b> Life Processes (Continued.) Topic: Basic concept of transportation and excretion in plants & animals	
		<u><b>PHYSICS</b></u> <b>Chapter 9:</b> Light – Reflection and Refraction (continued) Topic: Refraction of light through Spherical Lens, lens formula and its application.	<b>ACTIVITY</b> 1. To draw Ray Diagram for various position of objects for Concave and Convex Lens. 2. To Trace the path of light through Glass slab showing refraction phenomena.
		<u><b>CHEMISTRY</b></u> <b>Chapter 1</b> Chemical reactions and equations <b>Topics:</b> types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic exothermic reactions, oxidation and reduction.	<b>Activity-</b> To study types of chemical reactions. Combination, decomposition, displacement, double displacement, precipitation (In the laboratory)



	July	<u><b>BIOLOGY</b></u> <b>Chapter 6:</b> Control and Co-ordination	<b>ACTIVITY</b> Asks students to check if the nose has any effect on the taste of food. For this it asks us to eat sugar once with nose open, and once with nose closed; in another instance, it asks us to repeat the same with some other food.
		<u><b>PHYSICS</b></u> <b>Chapter 10:</b> The Human Eye and the Colourful World. Topics: <ul style="list-style-type: none"> <li>Human Eye, power of Accommodation, defects of vision and their correction, Refraction of Light through a prism.</li> <li>Atmospheric refraction and scattering of light.</li> </ul>	To Trace the path of ray of light through a glass prism and obtain spectrum.
		<u><b>CHEMISTRY</b></u> <b>Chapter-2:</b> Acid, bases and salts <b>Topics:</b> 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.	<b>Activity-</b> To study natural and synthetic indicators.  <b>ART (Art integrated activity)-</b> Natural Dye Extraction: Study the <u>CHEMISTRY</u> of natural dyes used in traditional Arunachal Pradesh textiles. Collect plant specimens from the region and extract dyes using scientific methods. Create artworks using these natural dyes, experimenting with different mordants and dyeing techniques.
	August	<u><b>BIOLOGY</b></u> <b>Chapter 7:</b> How do organisms reproduce	Study of binary fission in Amoeba and budding in Yeast & Hydra with the help of prepared slides.  Identification of the different parts of an embryo of a dicot seed (Pea, Gram or red kidney bean)
		<u><b>PHYSICS</b></u> <b>Chapter 11:</b> Electricity Topic: Electric Current and Circuit, Electric Potential, Circuit Diagram, Ohms Law, Resistance and resistivity, Heating Effect of current, Electric Power.	To plot the graph between Electric Potential and Current using Ohm's Law
		<u><b>CHEMISTRY</b></u> <b>Chapter-3:</b> Metals and non metals	Activity-To show exchange of electrons in ionic bond through a model.

Topics: Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention.

**September**

**HALF YEARLY EXAMINATION BEGINS**

**October**

**BIOLOGY**

**Chapter 8:** Heredity

Topic- Heredity; Mendel's contribution- Laws for inheritance of traits, sex determination.

**Chapter 13:** Our Environment

**ART (Art integrated activity)-**

Topic: Design a Solar Oven – Integrating Physics, Chemistry and Biology

Objective:

Students will apply principles of heat transfer and energy conversion to design and test a working model of a solar oven.

Mode: A beautifully decorated hand made Scrap file.

Materials Needed:

Cardboard box or pizza box,

Aluminum foil,

Black chart paper,

Transparent plastic sheet or glass, Thermometer, Tape, scissors, glue, Stopwatch

**PHYSICS**

**Chapter 12:** Magnetic effects of electric current

**ACTIVITY**

To Draw and Study the field line patterns of Magnetic Field through the various Current Carrying Conductors.

**CHEMISTRY**

**Chapter-4:** Carbon and its compounds

**Topics:** Covalent bonding in carbon compounds, Versatile nature of carbon, Homologous series, Nomenclature of carbon compounds containing functional groups.

Topics: Chemical properties of carbon compounds

Ethanol and Ethanoic acid

soaps and detergents.

**Activity-**Model of structure of graphite.

**November**

**REVISION & PRE-BOARD - 1 BEGINS**

**December**

**PRE-BOARD- 2 BEGINS**

**January**

**REVISION**

**February**

**ANNUAL EXAMINATION BEGINS**

# ARTIFICIAL INTELLIGENCE (417)

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
<b>ARTIFICIAL INTELLIGENCE (417)</b>	<b>APRIL</b>	<b>Employability Skills:</b> <b>Unit 1:</b> Communication Skills-II <b>Unit 2:</b> Self-Management Skills-II	<b>ART INTEGRATED PROJECT</b>  <b>AI in Daily Life – Comic Strip</b> Subjects Integrated: AI, English, Art Activity: Create a comic strip/storyboard showing a day in the life of a person using AI — voice assistants, navigation, recommendations, etc. Focus on storytelling with illustrations, humor, or thought-provoking elements. Include a panel that explains the AI behind each use.
	<b>MAY</b>	<b>Subject Specific Skills</b> <b>Unit 1:</b> Revisiting AI Project Cycle & Ethical Frameworks for AI <b>Unit 6:</b> Natural Language Processing	<b>Activity</b> My Goodness <a href="https://www.my-goodness.net/">https://www.my-goodness.net/</a> Keyword Extraction <a href="https://cloud.google.com/natural-language">https://cloud.google.com/natural-language</a>
	<b>JULY</b>	<b>Subject Specific Skills</b> <b>Unit 3:</b> Evaluating Models  <b>Employability Skills:</b> <b>Unit 3:</b> ICT Skills-II	<b>PROJECT</b> <b>Unit 7: Advance Python</b> <ul style="list-style-type: none"><li>• Write a program to add the elements of the two lists.</li><li>• Write a program to calculate mean, median and mode using NumPy</li><li>• Write a program to display line chart from (2,5) to (9,10).</li><li>• Write a program to display a scatter chart for the following points (2,5), (9,10),(8,3),(5,7),(6,18).</li><li>• Read the csv file saved in your system and display 10 rows.</li><li>• Read csv file saved in your system and display its information</li><li>• Write a program to read an image and display using Python</li><li>• Write a program to read an image and identify its shape using Python</li></ul>
	<b>AUGUST</b>	<b>Subject Specific Skills</b> <b>Unit 2:</b> Advanced Concepts of Modeling in AI  <b>Employability Skills:</b> <b>Unit 5:</b> Green Skills-II	<b>Activity</b> Human Neural Network – The Game
	<b>SEPTEMBER</b>	<b>HALF YEARLY EXAMINATION BEGINS</b>	

	OCTOBER	<b>Subject Specific Skills</b> <b>Unit 5:</b> Computer Vision  <b>Employability Skills:</b> <b>Unit 4:</b> Entrepreneurial Skills-II	<b>ART INTEGRATED PROJECT</b> AI Data Visualization Art Subjects Integrated: AI, Math, Art Activity: Collect basic data (e.g., class students' screen time, favorite AI tools). Represent it using creative data art — bar graphs with doodles, pie charts with themed decoration. Add a brief explanation of how data is used in AI for pattern recognition or training models.  <b>Teachable Machine:</b> <a href="https://teachablemachine.withgoogle.com/">https://teachablemachine.withgoogle.com/</a> <b>Activity</b> Build a Smart Sorter <b>Unit 4: Statistical Data</b> AI Project Development Using 1. Statistical Data for AI: Prediction of palmer penguin species 2. Computer Vision: Early detection of coral bleaching 3. Natural Language Processing: Sentiment Analysis
	NOVEMBER	PREBOARD-1 BEGINS	
	DECEMBER	PREBOARD-2 BEGINS	
	JANUARY	REVISION	

# **SOCIAL SCIENCE (087)**

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT
<b>SOCIAL SCIENCE (087)</b>	<b>APRIL</b>	1. Development 2. Power Sharing	<ul style="list-style-type: none"> <li>Download the recent 'The World Development Report 2020' and analyse the data for further understanding of the development.</li> </ul>
	<b>MAY</b>	1. Nationalism in India 2. Resources and Development Political Parties	<ul style="list-style-type: none"> <li>Map Activity</li> </ul> <p>Nationalism in India</p> <ul style="list-style-type: none"> <li>Discuss the Factors responsible for formation of soil near your locality</li> <li>Why did various classes and groups of Indians participate in the Civil Disobedience Movement?</li> <li><b>Every student</b> has to compulsorily undertake <b>any one project</b> on the following topics:</li> <li>Consumer Awareness</li> <li><b>OR</b></li> <li>Social Issues (any one)</li> <li><b>OR</b></li> <li>Sustainable Development</li> <li>Interdisciplinary project (History, Geo, Eco)</li> </ul>
	<b>JULY</b>	1. The Rise of Nationalism in Europe 2. Federalism 3. Sectors of the Indian Economy 4. Minerals and Energy Resources	<ul style="list-style-type: none"> <li>Visit or Invite personalities associated with local administration and discuss the various forms of powers entrusted with them and their execution</li> <li>Conduct a survey on workers under different sectors in your locality for better understanding of their conditions.</li> </ul>
	<b>AUGUST</b>	1. Money and Credit 2. The making of a Global World 3. Forest and Wildlife 4. Water Resources 5. Agriculture 6. Gender, Religion and Caste	<ul style="list-style-type: none"> <li>List out the forest and wildlife resources in your region and classify them under various types discussed in the chapter.</li> <li>Major sea ports- kandla, Mumbai, marmagao, new manglore, kochi, tuticorin, Chennai, paradeep, haldia,</li> <li>Dam's (map work)</li> <li>Make a table of Agriculture crops produced in India and present as a chart</li> <li>Make a list of inter-state water disputes.</li> <li>Debate on gender equality</li> </ul>

	<b>SETEMBER</b>	<b>TERM 1 EXAMINATION</b>	
	<b>OCTOBER</b>	1. Print Culture the Modern world 2. Manufacturing Industries 3. Globalization and the Indian Economy 4. Age of Industrialization (Assessment only)	<ul style="list-style-type: none"> <li>Imagine that you are Marco Polo. Write a letter from China to describe the world of print which you have seen there.</li> </ul> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> <li>You are a bookseller advertising the availability of new cheap printed books. Design a poster for your shop window. Take some branded products that we use every day. Check which of these are produced by MNCs.</li> </ul>
	<b>NOVEMBER</b>	5. Lifelines of National Economy (map work only) 6. Outcomes of Democracy 7. Consumer Rights (To be used only for Project Work)	<ul style="list-style-type: none"> <li>Select any one industry in your region and find its history. How has technology changed? Interpretation of various cartoons given in the textbook under the chapter and write a commentary.</li> </ul>
		<b>PRE BOARD–I</b>	
	<b>DECEMBER</b>	<b>PRE BOARD–II</b>	
	<b>JANUARY</b>	<b>REVISION</b>	



# **MATHEMATICS**

# **STANDARD &**

# **BASIC**

# **(041/241)**

Subject	Month	Unit/Chapter	ACTIVITY/PROJECT
<b>MATHEMATICS STANDARD &amp; BASIC (041/241)</b>	APRIL & MAY	<ul style="list-style-type: none"> <li>• REAL NUMBERS</li> <li>• POLYNOMIALS</li> <li>• QUADRATIC EQUATIONS</li> <li>• LINEAR EQUATIONS IN TWO VARIABLES</li> <li>• TRIANGLES</li> </ul>	To draw the graph of quadratic polynomial and observe: The shape of the curve when the coefficient of $x^2$ is positive. The shape of the curve when the coefficient of $x^2$ is negative. Its number of zeroes and value of zeroes. To find the nature of roots of quadratic equations. To verify the conditions of consistency/ inconsistency for given pairs of linear equations in two variables by graphical method.
	JULY	<ul style="list-style-type: none"> <li>• ARITHMETIC</li> <li>• PROGRESSION</li> <li>• INTRODUCTION TO TRIGONOMETRY</li> <li>• APPLICATION OF TRIGONOMETRY</li> </ul>	<b>ART INTEGRATED ACTIVITY</b> Triangles Exploring Tribal Patterns of Arunachal Pradesh through Triangles
	AUGUST	<ul style="list-style-type: none"> <li>• CIRCLES</li> <li>• STATISTICS</li> <li>• CO-ORDINATE GEOMETRY</li> </ul>	To verify experimentally that the tangent at any given point to a circle is perpendicular to the radius through that point. To find the Mean, Median and Mode of the data collected for a given situation and interpret the result.
	SEPTEMBER	• <b>HALF YEARLY EXAMINATION</b>	
	OCTOBER	<ul style="list-style-type: none"> <li>• AREAS RELATED TO CIRCLES</li> <li>• SURFACE AREA AND VOLUMES</li> <li>• PROBABILITY</li> </ul>	To compare the theoretical probability of an event of getting head of its empirical probability by tossing a coin 200 times.  <b>ART INTEGRATED ACTIVITY</b> Circles Exploring Arunachal Pradesh through Circular Mandalas
	NOVEMBER	<b>PREBOARD I</b>	
	DECEMBER	<b>PREBOARD II</b>	
	JANUARY	<b>REVISION</b>	