

**BHARATIYA VIDYA BHAVAN VIDYASHRAM, K.M. MUNSHI MARG, JAIPUR**  
**SYLLABUS - SESSION 2021-22**  
**CLASS-X**

**SUBJECT-ENGLISH (Language and Literature, Code no-184)**

**Prescribed Books: Published by NCERT, New Delhi**

**1. FIRST FLIGHT- (Textbook)**

**2. FOOTPRINTS WITHOUT FEET- (Supplementary Reader)**

**3. WORDS AND EXPRESSIONS - (Workbook)**

<b>MONTH</b>	<b>NAME OF THE TOPIC</b>	<b>ACTIVITY</b>	<b>LEARNING OUTCOME</b>
April	<b>First Flight</b> 1. A Letter to God Dust of Snow Fire and Ice 2.Nelson Mandela : Long Walk to Freedom A Tiger in the Zoo <b>Footprints without Feet</b> 1. A Triumph of Surgery <b>Words and Expressions</b> 1. A Letter to God <b>Writing Skills</b> Formal Letter <b>Grammar</b> Tenses, Modals Integrated Grammar Practice	Speaking & Listening Activity (pg.11-12)	<ul style="list-style-type: none"> <li>• relate a thought-provoking story about the nature of belief</li> <li>• ability to understand the difficult situations in life</li> <li>• understand and appreciate poetry as a literary art form</li> <li>• ability to use appropriate style and format to write letter</li> <li>• acquire adequate skills to comprehend &amp; communicate effectively</li> </ul>
May	<b>First Flight</b> 3. Two Stories about Flying (1) His First Flight (2) Black Aeroplane How to Tell Wild Animals The Ball Poem	Speech (pg.26)	<ul style="list-style-type: none"> <li>• think critically whether miracles and mysteries really exist</li> <li>• analyse the underlying meaning of the poem by using the elements of poetry</li> </ul>

	<p><b>Footprints without Feet</b> 2. The Thief's Story</p> <p><b>Words and Expressions</b> 2. Nelson Mandela: Long Walk to Freedom 3. Two Stories about Flying</p> <p><b>Grammar</b> Subject-Verb Concord Reported Speech Commands and Requests Integrated Grammar Practice</p>		<ul style="list-style-type: none"> <li>learn the importance of education in life</li> </ul>
July	<p><b>First Flight</b> 4. From the Diary of Anne Frank Amanda! 5. The Hundred Dresses- I 6. The Hundred Dresses- II Animals</p> <p><b>Footprints without Feet</b> 3. The Midnight Visitor</p> <p><b>Words and Expressions</b> 4. From the Diary of Anne Frank 5. The Hundred Dresses – I</p> <p><b>Writing Skills</b> Analytical Paragraph</p> <p><b>Grammar</b> Statements, Questions Determiners Integrated Grammar Practice</p>	Prepare a list of idiomatic expressions (10) and use each one of them in a sentence (pg.57)	<ul style="list-style-type: none"> <li>plan, organize and present ideas coherently</li> <li>identify the new poetic devices and comment on their use</li> <li>be sensitized towards causes and effects of neglect towards the peer</li> <li>explore and evaluate features of character, plot and setting.</li> </ul>
August	<p><b>First Flight</b> 7. Glimpses of India (i) A Baker from Goa (ii) Coorg (iii) Tea from Assam</p>	Group Discussion (pg.89)	<ul style="list-style-type: none"> <li>identify and implement practices of sustainability of natural environment</li> <li>develop skills of critical analysis and interpretation of selected poems in order to understand the</li> </ul>

	<p>The Trees 8. Mijbil the Otter Fog <b>Footprints without Feet</b> 4. A Question of Trust 5. Footprints without Feet <b>Words and Expressions</b> 6. The Hundred Dresses - II 7. Glimpses of India <b>Writing Skills</b> Formal Letter Analytical Paragraph <b>Grammar</b> Use of Passive Voice Clauses: Noun, Adverb, Clauses of Condition &amp; Time, Relative Clauses Prepositions Integrated Grammar Practice</p>	Art Integrated Project	theme, language, tone and style and elements of prosody
September	<p><b>Words and Expressions</b> 8.Mijbil the Otter <b>Footprints without Feet</b> 6.The Making of a Scientist <b>Revision</b></p>		<ul style="list-style-type: none"> <li>• infer, cherish and practice human values</li> <li>• organize and present thoughts in a reasonably logical and fluent manner</li> <li>• express clearly, accurately and coherently, adapting language and style in and for a range of contexts and purposes</li> <li>• deduce logically the meanings of certain expressions from the text</li> </ul>
October	<p><b>First Flight</b> 9. Madam Rides the Bus The Tale of Custard the Dragon 10. The Sermon at Benares For Anne Gregory <b>Footprints without Feet</b> 7.The Necklace</p>	Portfolio	<ul style="list-style-type: none"> <li>• identify features of Ballad poetry</li> <li>• demonstrate literal and inferential comprehension through participation in discussion about difficulty human beings face in accepting the terms of the world</li> </ul>

	8.The Hack Driver <b>Words and Expressions</b> 9.Madam Rides the Bus 10.The Sermon at Benares <b>Writing Skills</b> Analytical paragraph <b>Grammar</b> Integrated Grammar Practice		<ul style="list-style-type: none"> <li>justify the irony in the title of the story</li> </ul>
November	<b>First Flight</b> 11. The Proposal <b>Footprints without Feet</b> 9.Bholi 10. The Book That Saved the Earth <b>Words and Expressions</b> 11. The Proposal <b>Writing Skills</b> Formal Letter Analytical Paragraph <b>Grammar</b> Integrated Grammar Practice <b>Revision</b>	Speaking & Writing (pg.159)	<ul style="list-style-type: none"> <li>encourage learner autonomy and responsibility through drama</li> <li>evaluate the strengths and weaknesses in a literary text</li> <li>read extensively to get multiple encounters with words and phrases in a variety of contexts</li> <li>use appropriate language and expression for writing a letter and analytical paragraph</li> </ul>

### Syllabus for Periodic Test 1

<b>First Flight</b>	<b>Footprints without Feet</b>	<b>Writing Skills</b>
<b>1 &amp; 2</b>	<b>1 &amp; 2</b>	<b>Formal Letter</b>
<b>Words and Expressions</b> <b>1 &amp; 2</b>	<b>Grammar</b> <b>Integrated Grammar Practice</b>	

### Syllabus for Periodic Test 2

<b>First Flight</b>	<b>Footprints without Feet</b>	<b>Writing Skills</b>
<b>1 to 4</b>	<b>1 to 4</b>	<b>Formal Letter &amp; Analytical Paragraph</b>

Words and Expressions 1 to 4	Grammar-- Integrated Grammar Practice	
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### Syllabus for Half Yearly Examination

First Flight 1 to 8	Footprints without Feet 1 to 6	Writing Skills Formal Letter Analytical Paragraph
Words and Expressions 1 to 8	Grammar Integrated Grammar Practice	

### Pre-Board 1 and Pre-Board 2 - Entire Syllabus

विषय –संस्कृत

निर्धारित पाठ्यपुस्तक– “शेमुषी” पाठ्यपुस्तकम् भाग-2 (NCERT द्वारा प्रकाशित)

“व्याकरणवीथिः” (NCERT द्वारा प्रकाशित)

“अभ्यासवान् भव-भाग-2” (NCERT द्वारा प्रकाशित)

महीना	पाठ्यबिन्दु	पाठ्यसहगामी गतिविधियाँ	अधिगम <b>Learning out come</b>
अप्रैल	पाठ-1. शुचिपर्यावरणम्, पाठ-2. बुद्धिर्बलवती सदा व्याकरण – संधि, समय, संस्कृतानुवाद	संधि-विच्छेद एवं संयोजन, नियम- निर्धारण।	संधि व समास के नियमों का ज्ञान।
मई	पाठ-3. व्यायामः सर्वदा पथ्यः, पाठ -4 शिशुलालनम् व्याकरण – अव्यय, अपठित गद्यांश, पुनरावृत्ति।	अव्ययों का वाक्यप्रयोग।	प्रत्ययों के नियमों का ज्ञान।
जुलाई	पाठ- 5. जननी तुल्यवत्सला, 6. सुभाषितानि, व्याकरण – प्रत्यय, समास	प्रत्ययों की सारणी निर्माण एवं प्रयोग।	वाच्य परिवर्तन का ज्ञान।
अगस्त	पाठ-7. सौहार्द प्रकृतेः शोभा, व्याकरण – अशुद्धिसंशोधन।	अशुद्धिसंशोधन	अशुद्धियों के सुधार के नियमों का ज्ञान।

सितम्बर	व्याकरण- पत्रलेखन, चित्राधारित वर्णन, पुनरावृत्ति।	चित्राधारित वाक्यनिर्माण, पत्र लेखन अभ्यास।	संस्कृत में वाक्यरचना का ज्ञान।
अक्टूबर	पाठ- 8. विचित्रः साक्षी 9. सूक्तयः, 11. प्राणेभ्योऽपि प्रियः सुहृद् व्याकरण- वाच्य परिवर्तन।	श्लोकान्वय अभ्यास।	वाच्य परिवर्तन का ज्ञान। श्लोकों का अन्वय-ज्ञान।
नवम्बर	पुनरावृत्ति तथा आदर्श प्रश्नपत्रों से अभ्यासकार्य।	रचनात्मक अभ्यासकार्य।	लिखित अभिव्यक्ति का अभ्यास।
दिसम्बर	पुनरावृत्ति तथा आदर्श प्रश्नपत्रों से अभ्यासकार्य।	रचनात्मक अभ्यासकार्य।	लिखित अभिव्यक्ति का अभ्यास।
जनवरी	पुनरावृत्ति तथा आदर्श प्रश्नपत्रों से अभ्यासकार्य।	रचनात्मक अभ्यासकार्य।	लिखित अभिव्यक्ति का अभ्यास।
फरवरी	पुनरावृत्ति तथा आदर्श प्रश्नपत्रों से अभ्यासकार्य।	आदर्श प्रश्नपत्रों से लिखित अभ्यास।	लिखित अभिव्यक्ति का अभ्यास।

### P1 पाठ्यक्रम

पाठ- 1, 2, अपठित गद्यांश, संधि, संस्कृतानुवाद, समय, अव्यय।

### P2 पाठ्यक्रम

पाठ-3,4, अपठित गद्यांश, संधि, समास, प्रत्यय, समय, अव्यय।

अर्द्धवार्षिक परीक्षा-पाठ्यक्रम

पाठ-1,2,3,4,5, अपठित गद्यांश, चित्रवर्णन/ अनुच्छेदलेखन, पत्रलेखन, संधि, समास, प्रत्यय,, समयलेखन, अव्यय, अशुद्धिसंशोधन, संस्कृतानुवाद।

प्री बोर्डपरीक्षा 1 -पाठ्यक्रम

सम्पूर्ण पाठ्यक्रम। (बोर्ड आधारित प्रश्न पत्र)

प्री बोर्डपरीक्षा 2 -पाठ्यक्रम

सम्पूर्ण पाठ्यक्रम। (बोर्ड आधारित प्रश्न पत्र)

## SUBJECT – HINDI

पाठ्य पुस्तकें -

1. क्षितिज भाग -2 (NCERT)
2. कृतिका भाग -2 (NCERT)
3. सरस्वती मानक व्याकरण एवं रचना (न्यू सरस्वती हाउस इण्डिया प्रा. लि.)

माह	पाठ्यक्रम	गतिविधियाँ	शिक्षण अधिगम
अप्रैल	<b>क्षितिज (गद्य)</b> पाठ-10 नेताजी का चश्मा <b>क्षितिज (पद्य)</b> पाठ-1 सूरदास <b>व्याकरण</b> रचना के आधार पर वाक्य भेद(उद्देश्य,विधेय,भेद)	ग्राफिक नॉवल (पाठ सूरदास पर आधारित)	<ul style="list-style-type: none"> <li>देशभक्ति की भावना विकसित करेंगे ।</li> <li>निर्गुण ब्रह्म की अपेक्षा सगुण ब्रह्म की महत्ता एवं कृष्ण के प्रति गोपियों के अनन्य भक्ति प्रेम को समझेंगे ।</li> <li>भाषा का शुद्धीकरण, रचनात्मकता, कल्पनाशीलता, एवं अर्थग्रहण कौशल का विकास करेंगे ।</li> </ul>
मई	<b>व्याकरण</b> अपठित गद्यांश,अनुच्छेद,अनौपचारिक पत्र,विज्ञापन,सन्देश लेखन		<ul style="list-style-type: none"> <li>लेखन कौशल का विकास करेंगे ।</li> <li>भाषिक नियमों का ज्ञान अर्जित करेंगे ।</li> </ul>
जुलाई	<b>क्षितिज (गद्य)</b> पाठ-11 बाल गोबिन भगत <b>क्षितिज (पद्य)</b> पाठ -2 तुलसीदास <b>कृतिका</b> पाठ-1 माता का अंचल <b>व्याकरण</b> अपठित पद्यांश,रचना के आधार पर वाक्य भेद (रूपान्तरण,मिश्र वाक्य के भेद)	विज्ञापन/अभिनय कौशल	<ul style="list-style-type: none"> <li>सामाजिक रुढ़ियों के प्रति विरोध के स्वर मुखरित करेंगे ।</li> <li>विनम्रता के महत्व को समझेंगे ।</li> <li>तत्कालीन समाज के पारिवारिक परिवेश को जानेंगे ।</li> <li>अर्थग्रहण कौशल का विकास करेंगे।</li> </ul>
अगस्त	<b>क्षितिज (गद्य)</b> पाठ -12 लखनवी अंदाज <b>क्षितिज (पद्य)</b> पाठ-5 उत्साह,अट नहीं रही है		<ul style="list-style-type: none"> <li>बनावटी जीवन शैली की अपेक्षा सादगीपूर्ण जीवन शैली को बढ़ावा देंगे।</li> <li>बदलाव अर्थात् परिवर्तन में साहित्य की भूमिका से परिचित होंगे ।</li> <li>औपनिवेशक दौर की मानसिकता एवं विदेशी आकर्षण के प्रति आक्रोश की भावना जागृत कर भ्रष्टाचार के विरुद्ध होंगे ।</li> </ul>

	<b>व्याकरण</b> औपचारिक पत्र <b>कृतिका</b> पाठ-2 जार्ज पंचम की नाक		
सितम्बर	<b>क्षितिज (गद्य)</b> पाठ-13 मानवीय करुणा की दिव्य चमक <b>क्षितिज (पद्य)</b> पाठ-6 यह दंतुरित मुस्कान, फसल <b>व्याकरण</b> पद परिचय (संज्ञा, सर्वनाम, क्रिया, विशेषण), रस (अवयव)		<ul style="list-style-type: none"> <li>● फादर कामिल बुल्के के व्यक्तित्व से परिचित होंगे</li> <li>● भाषिक नियमों का ज्ञान अर्जित करेंगे।</li> <li>● उपभोक्तावादी संस्कृति की अपेक्षा कृषि संस्कृति के निकट जायेंगे।</li> </ul>
अक्टूबर	<b>क्षितिज (गद्य)</b> पाठ -14 एक कहानी यह भी <b>क्षितिज (पद्य)</b> पाठ-7 छाया मत छूना पाठ-8 कन्यादान <b>कृतिका</b> पाठ-3 साना साना हाथ जोडि <b>व्याकरण</b> रस के भेद, पद-परिचय (अविकारी शब्द)	श्रवण कौशल	<ul style="list-style-type: none"> <li>● स्त्रियों के प्रति सम्मान की भावना को विकसित करेंगे।</li> <li>● गंतोक एवं हिमालय के सौंदर्य को यात्रा वृत्तान्त के माध्यम से जानेंगे।</li> <li>● अर्थ ग्रहण, ज्ञान बोध, एवं भाषिक नियमों से परिचित होंगे।</li> <li>● अतीत की स्मृतियों की अपेक्षा भविष्यवरण के महत्व को समझेंगे।</li> </ul>
नवम्बर	<b>क्षितिज (गद्य)</b> पाठ -16 नौबतखाने में इबादत <b>क्षितिज (पद्य)</b> पाठ-9 संगतकार	पाठ्य पुस्तक के किसी एक पात्र की विशेषताओं को दर्शाते हुए उसका चरित्र चित्रण।	<ul style="list-style-type: none"> <li>● भाषिक नियमों से परिचित होंगे।</li> <li>● बिस्मिल्ला खां की रुचियों, उनके अंतर्मन की बुनावट, एवं संगीत साधना के प्रति लगन से प्रभावित होंगे।</li> <li>● संगतकार के महत्व को जानेंगे।</li> </ul>



	<b>व्याकरण</b> वाच्य(भेद एवं परिवर्तन), संदेश लेखन		
दिसम्बर	सम्पूर्ण पाठ्यक्रम की पुनरावृत्ति		
जनवरी	बोर्ड आधारित नमूने के प्रश्न पत्र हल		
फरवरी	पाठ आधारित समस्या समाधान एवं पुनरावृत्ति लेखन कौशल का अभ्यास		

उपर्युक्त गतिविधियों के द्वारा विद्यार्थियों में श्रवण, पठन, लेखन, वाचन के कौशल को विकसित किया जाएगा ।

**पाठ्यक्रम P 1 (2021-22)**

**क्षितिज (गद्य ) -पाठ -10 नेताजी का चश्मा**

**क्षितिज (पद्य )**

पाठ-1 सूरदास

**व्याकरण**

अपठित गद्यांश, अनौपचारिक पत्र, वाक्य (उद्देश्य, विधेय, भेद), अनुच्छेद

**पाठ्यक्रम P 2 (2021-22)**

**क्षितिज (गद्य )**

पाठ-11 बाल गोबिन भगत

**क्षितिज (पद्य )**

पाठ-2 तुलसीदास

कृतिका

पाठ-1 माता का अंचल

व्याकरण - अपठित पद्यांश, अनुच्छेद, रचना के आधार पर वाक्य (रूपान्तरण, मिश्रवाक्य के भेद), पद-परिचय (विकारी शब्द)

**अर्द्ध वार्षिक परीक्षा पाठ्यक्रम (2021-22)**

**क्षितिज (गद्य )-पाठ-12 लखनवी अंदाज**

पाठ-13 मानवीय करुणा की दिव्य चमक

क्षितिज (पद्य) -पाठ-5 उत्साह, अट नहीं रही है

पाठ -6 यह दंतुरित मुस्कान, फसल

कृतिका -पाठ-2 जार्ज पंचम की नाक

व्याकरण- पद-परिचय (विकारी शब्द), रस (अवयव), विज्ञापन

P 1 एवं P 2 का संपूर्ण पाठ्यक्रम समाहित रहेगा

प्री बोर्ड – 1 पाठ्यक्रम (2021-22)

क्षितिज (गद्य)

पाठ-14 एक कहानी यह भी

पाठ-16 नौबतखाने में इबादत

क्षितिज (पद्य)

पाठ-7 छाया मत छूना

पाठ -8 कन्यादान

पाठ-9 संगतकार

कृतिका

पाठ-3 साना साना हाथ जोडि

व्याकरण

पद-परिचय (अविकारी शब्द), रस के भेद एवं उदाहरण, वाच्य (भेद एवं रूपांतरण), सन्देश लेखन

प्री बोर्ड में P 1, P 2 एवं अर्द्ध वार्षिक परीक्षा का पाठ्यक्रम समाहित रहेगा ।

प्री बोर्ड –II पाठ्यक्रम (2021-22)

बोर्ड आधारित सम्पूर्ण वार्षिक पाठ्यक्रम ।

P1, P 2, अर्द्ध वार्षिक , प्री बोर्ड का सम्पूर्ण पाठ्यक्रम ।

**SUBJECT: MATHEMATICS**

## TEXT BOOK- NCERT

MONTH	NAME OF THE TOPIC	ACTIVITY	LEARNING OUTCOME
April	Ch 13: Surface Area and Volumes	Volume and Weight based activity	Application of Volumes and Surface areas for combination and conversion of 3D solids.
	Ch 15: Probability	Practical application of Probability	Practical application of Probability
	Ch 12: Areas Related to Circle		To apply the concept of circles to find the areas of sectors and segments
May	Ch-14 Statistics	Ogive	Application of measures of central tendency
	Ch-3 Pairs of Linear Equations in 2 Variables		Application of graphical and algebraic methods of solving equations in 2 Variables
July	<i>Ch-4 Quadratic Equations</i>	Graphical representation of Quadratic Polynomial	To find the nature of roots to check the feasibility of given situations.
	<i>Ch-2 Zeroes of a polynomial</i>		To verify the relationship between the zeroes and coefficients of quadratic polynomials.
	Ch-5 Arithmetic progression		To apply the concept of Arithmetic progression to real life situations
August	Ch-6 Similar Triangles	Pythagoras Theorem	To identify and verify similarity of triangles.
		Clinometer	Application of Trigonometric identities.

	Ch-8 Introduction to Trigonometry		
September	Ch-9 Application of Trigonometry Ch-1 Number System		To apply T-ratios to find heights and distances in practical problems. To apply the properties of Real numbers.
October	Ch-7 Coordinate Geometry Ch-10 Circles	Verification of Distance Formula Tangent Property	To find the length and the points of internal division for a straight line. To apply the Property of tangents.
November	Ch-11 Geometric Constructions Revision		To divide a line in given ratio and draw tangents to a circle.
December		Pre Board Examination	
January		Pre Board Examination	
February		Remedial Work/ Sample papers	

Name of Examination	Chapter
Periodic Test-I	Ch 13 Surface areas and Volume
	Ch 15 Probability
Periodic Test-II	Ch 3 Linear Equations in two variables

	Ch12 Areas Related to Circles
Half Yearly Exams	Ch 2 Polynomials Ch 3 Linear Equations in two variables Ch 4 Quadratic Equations Ch 6 Triangles Ch 12 Areas related to the circles Ch 13 Surface areas and Volumes Ch 14 Statistics Ch 15 Probability
Periodic Test III	Ch 1 Real Numbers Ch 8 Introduction to Trigonometry
Pre Board I	Ch 1 to Ch 15
Pre Board II	Ch 1 to Ch 15

**SUBJECT: SCIENCE**

MONTH	NAME OF THE TOPIC	ACTIVITY	LEARNING OUTCOME
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April	<p>Ch1. Chemical reaction</p> <p>Ch 6. Life process (Nutrition and Respiration)</p> <p>Ch.10 Light (Reflection)</p>		<p>Ch-1 Students will be able to differentiate between different types of reactions.</p> <p>Ch-6- Develop the concept of life process. Will be able to understand the meaning of autotrophic nutrition (photosynthesis).</p> <p>-Identify the type of heterotrophic nutrition in living organisms on the basis of their feature.</p> <p>Ch-10 Light-(Reflection) Students will be able to understand the difference between the image formed by concave and convex mirror Will be able to understand uses of these mirrors.</p>
May	<p>Ch.1 Chemical Reactions</p> <p>Ch.6 Life process (Nutrition and Respiration)</p> <p>Ch .10 Light (Refraction)</p> <p>Ch.2. Acid Bases and salts</p> <p>Revision for P1</p>	<p>1. Different Chemical reactions.</p> <p>2.Determination of Focal length of</p> <p>i) Concave mirror</p> <p>ii) convex lens</p> <p>By obtaining the image of a distant object.</p> <p>3. To show that the light is necessary for Photosynthesis.</p>	<p>Ch-1 Students will be able to differentiate between different types of reactions; will be able to know why the food gets spoiled during summers, why the packets of chips are filled with air and self protecting metals.</p> <p>Ch -6 Arrange sequentially all steps of digestion of food in human.</p> <p>-Draw a labelled diagram of Human digestive system.</p> <p>-Interpret the significance of various pathways of Glucose breakdown.</p> <p>Ch10 Students will be able to understand the reason for the change in velocity of light in different media and the phenomenon of refraction.</p> <p>Ch.2 will know different types of acids and bases and will be able to find their strength using pH paper know about different indicators.</p>

July	<p>Ch.2 Acid , Base and Salts (continued)</p> <p>Ch 6. Life Process (transportation and Excretion)</p> <p>Ch.7 Control and coordination</p> <p>Ch.11.Human Eye</p> <p>Revision</p>	<p>1.To find the pH of different solutions</p> <p>2. Different Natural and Synthetic Indicators.</p> <p>3. Finding the image distance for varying object distances, in case of a convex lens and drawing corresponding ray diagrams to show the nature of the image formed.</p> <p>4. Tracing the path of ray of light passing through a rectangular slab for different angle of incidence.</p> <p>5. Properties of acids and bases by their reaction with:</p> <p>i) Litmus Solution</p> <p>ii) Zinc Metal</p> <p>iii) Sodium Carbonate</p> <p>6. To prepare mount of leaf peel to show stomata</p>	<p>Ch-2 Students will know about use of baking powder salts ,how is caustic soda manufactured, preparation of washing soda, plaster of Paris, bleaching powder</p> <p>Ch-6 Identify various waste products.          -Understanding the importance of filtration and removal of liquid waste through kidney          -draw the detailed structure of nephron.          -Find out the waste product of plants and mechanism of their removal.</p> <p>Ch7 Understanding structure and function of reflex arc, nerve cell, human brain.          -Analyze the diagram of human brain and relate the different parts of brain with their functions.          -discover the effect of stimuli on plant growth and tropic movement          -develop the concept of phytohormone.</p> <p>Ch-11 Understand the various kinds of defect of vision and how the defects are corrected. Refraction through Prism, scattering of light, atmospheric refraction.</p>
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August	<p>Ch 3 Metals and Non metals</p> <p>Ch 7. Control and coordination</p> <p>Ch.8 Why do organisms reproduce</p> <p>Ch.12 Electricity</p>	<p>1.To observe the action of zinc, iron, copper and aluminium metals on the following salt solutions</p> <p>i) Zinc Sulphate solution  ii) Ferrous Sulphate solution  iii) copper Sulphate solution  iv) Aluminium Sulphate solution</p> <p>and arrange the above metals in the decreasing order of their reactivity based on the above results</p> <p>2. Tracing the path of the rays of light through a glass prism.</p> <p>3. To observe reproduction in Yeast and Amoeba</p> <p>Art Integrated Activity</p>	<p>Ch-3, 4 Students will be acquainted with the various metallurgical process to obtain metals in their purest form, will know the difference between ionic compound and covalent compounds.</p> <p>Ch-8 Identifies , differentiate and understand different modes of asexual and sexual reproduction</p> <p>-Explain the significance of variation in the survival of species.</p> <p>-Draw a labeled diagram of different modes of asexual reproduction ,parts of flowers ,male and female reproductive system</p> <p>- Identify the contraceptive measures and its need.</p> <p>Ch-12- Construct an electric circuit, understand how a battery works .Identify the concepts applied in day to day life related to electricity.</p>
September	<p>Ch.15.Our Environment</p> <p>Ch-12 Electricity</p> <p>Ch-4 Carbon compounds</p> <p>Revision for half yearly</p>		<p>Ch-15 develops the concept to protect our environment following good practices.</p> <p>-determine features of food chain, energy transfer in various food chains.</p> <p>Ch.4. will be able to about covalent bond and will be able to show the electron dot structures of covalent compounds,</p>



October	<p>Ch.4 Carbon compounds</p> <p>Ch.9. Heredity and Evolution</p> <p>Ch.13 Magnetic effects of electric current.</p>	<p>1. to study the properties of Acetic Acid</p> <p>2. To study the dependence of potential difference (v) across a resistor on the current (I) passing through it and determine its resistance. Also plot a graph between V and I.</p>	<p>Ch-4 Students will be able to write the correct IUPAC name of the organic compound ,will know about the covalent bond, different Properties of ethanol and ethanoic acid.</p> <p>Ch-9 Develop the concept of Heredity.</p> <p>- Understand the laws of inheritance; co-relate the link between genes present and the traits expressed.</p> <p>-analyze the importance of gender/sex determination in present situation in India.</p> <p>Ch-13 Understand how a magnetic field can affect iron objects, know about solenoids and electromagnets different rules for finding the direction of force and magnetic field , electromagnetic induction, domestic electric circuits.</p>
November	<p>Ch.9. Heredity and Evolution</p> <p>Ch-5. Periodic Classification</p> <p>Ch. 16. Management of Natural resources.</p> <p>Ch.14 Sources of Energy</p>	<p>1. Preparation of Soap</p> <p>2. To study the comparative cleaning capacity of a sample of soap in soft and hard water.</p> <p>3. To study seed parts: Dicot, Monocot.</p> <p>4. Determination of the equivalent resistance of two resistors when connected in series and parallel.</p>	<p>Ch-9 Understand causes of evolution with the help of examples.</p> <p>-tabulate evidences of evolution</p> <p>-justify evolution by evidences of fossils</p> <p>Ch-5-Students will know about the Need for the classification of elements,</p> <p>Different types of classification given by the scientists, periodic trends shown by different elements.</p> <p>Ch-16 explore the need of management of natural resources</p> <p>Analyze the importance of forest, water, fossil fuels and their conservation.</p> <p>Interpret the significance of natural resources.</p> <p>Ch 14-Understand how sun is ultimate source o energy; know different forms of energy and</p> <p>Necessity of nonconventional energy source.</p>
December	Revision /Pre-board		

<b>Syllabus for P1</b>	Ch-1	Chemical reactions
	Ch-6	Life process (Nutrition and Respiration)
	Ch-10	Light(Reflection)
<b>Syllabus for P2</b>	Ch 2 Ch.10	Acids, bases and salts Light (refraction)
	Ch-6 Ch-11	Life process Human Eye (till defects)
<b>Syllabus for Half Yearly</b>		Entire syllabus of P1and P2
	Ch-3 Ch-7	Metals and Nonmetals Control and Coordination
	Ch-8	How do organisms reproduce?
	Ch-12	Electricity
	Ch-15	Our Environment
<b>Syllabus for PreBoard-1</b>		Complete Syllabus
<b>Syllabus for PreBoard-2</b>		Complete Syllabus

**SUBJECT: SOCIAL SCIENCE**

**Book – NCERT**

<b>MONTH</b>	<b>SUBJECT</b>	<b>CHAPTER</b>	<b>ACTIVITY</b>	<b>LEARNING OUTCOME</b>
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April	History	Ch – 1; Nationalism in Europe	Identify the development goals of different sections of society, e.g. farmer and businessman, educated and uneducated youth, a girl and a boy	How nation states were formed.
	Civics	Ch – 1; Power Sharing		Significance of French Revolution as the one to introduce the feeling of nationalism
	Geography	Ch – 1; Resources and Development		Discuss the working of social power sharing mechanism
		Ch – 4; Agriculture		Understand the values of resources and the need for their judicious utilization and conservation
	Economics	Ch – 1; Development		Explain the importance of Agriculture in National economy.
May	Civics	Ch – 2; Federalism	Mark important Wildlife Reserves and Multipurpose Projects on political Map of India	Elaborate Macro economic concepts
	Geography	Ch – 2; Forest and Wildlife		Identify federal provisions, understanding objectives of Decentralization
	Economics	Ch – 2; Sectors of Indian Economy		Understand the importance of biodiversity with regard to flora and fauna in India
		Ch – 5; Consumer Rights (Project)		Contribution of different sectors in Indian economy.
				Get familiarized with the rights and duties as a consumer

July	History	Ch -2; Nationalism In India	Identify places of availability of different energy resources on political map of India	Recognize the characteristics of Indian Nationalism through a case study of Non – Cooperation and Civil Disobedience Movement
	Civics	Ch – 4; Gender, Caste and Religion		Identify and analyze the challenges posed by involvement of politics in minority groups
	Geography	Ch – 3; Water Resources		Identify different dams in the country.
		Ch -5; Minerals and Energy Resources		Identify the various resources and the need for their judicious utilization and conservation
	Economics	Ch – 2; Sectors of Indian Economy		Contribution of different sectors in Indian economy.
August	History	Ch -2; Nationalism In India	On a political map of India mark and label the important centres of Indian Freedom Movement  Art Integrated Activity	Recognize the characteristics of Indian Nationalism through a case study of Non – Cooperation and Civil Disobedience Movement
	Civics	Ch – 6; Political Parties		Analyze the party systems in democracies
	Geography	Ch -5; Minerals and Energy Resources		Identify the various resources and the need for their judicious utilization and conservation
	Economics	Ch – 3; Money and Credit		Understand money as an economic concept and role of financial institutions from the point of view of day-to- day life
September	History	Ch – 4; The Age of Industrialization	Compare the poster of ‘Two Magicians’ in relation with	Familiarize with the process of industrialization and it’s impact on labor class
	Civics	Revision		

	Geography	Revision	the technological development	
	Economics	Ch – 3; Money and Credit		Understand money as an economic concept and role of financial institutions from the point of view of day-to- day life.
October	History	Ch – 4; The Age of Industrialization	Paste different labels used for advertisements during initial phase of Industrialization and explain the significance of the pictures used	Familiarize with the process of industrialization and it's impact on labor class
	Civics	Ch – 7; Outcomes of Democracy		Evaluate the functioning of democracies in comparison to alternative forms of governments
	Geography	Ch – 6; Manufacturing Industries		Bring out the importance of industries in national economy
	Economics	Ch – 3; Money and Credit		Understand money as an economic concept and role of financial institutions from the point of view of day-to- day life.
		Ch – 4; Globalization and the Indian Economy		Explain the working of global economic phenomenon
November	History	Ch – 5; Print Culture and the Modern World	On a given outline map of India show important railway routes, golden Quadrilateral and International Airports	Identify the link between print culture and the circulation of ideas
	Civics	Ch – 3; Democracy and Diversity		Analyze the relationship between social cleavages and political competition

	Geography	Ch – 7; lifelines of Indian Economy		Explain the importance transport and communication in the ever shrinking world
	Economics	Ch – 4; Globalization and the Indian Economy		Explain the working of global economic phenomenon
December	Civics	Ch – 5; Popular Struggles and Movements	Make a case study of the Farmers movement in India against the agricultural laws and identify the role of pressure groups and political parties	Understand the vital role of people’s struggle in the expansion of democracy
		Ch -8; Challenges to Democracy		Reflect on different kinds of measures possible to deepen democracy
	Geography	Revision		
	Economics	Revision		
January	History	Revision		
	Civics	Revision		
	Geography	Revision		
	Economics	Revision		
February	History	Revision		
	Civics	Revision		
	Geography	Revision		
	Economics	Revision		

Syllabus for -		
PT 1	History	Ch – 1; Nationalism in Europe
	Civics	Ch – 1; Power Sharing
	Geography	Ch – 1; Resources and Development
	Economics	Ch – 1; Development
PT 2	History	Ch -2; Nationalism In India
	Civics	Ch – 2; Federalism
	Geography	Ch – 4; Agriculture
	Economics	Ch – 2; Sectors of Indian Economy
Mid Term	History	Ch – 1; Nationalism in Europe
		Ch -2; Nationalism In India
	Civics	Ch – 1; Power Sharing
		Ch – 2; Federalism
		Ch – 4; Gender, Caste and Religion
	Geography	Ch – 1; Resources and Development
		Ch – 2; Forest and Wildlife
		Ch – 3; Water Resources

		Ch – 4; Agriculture
		Ch -5; Minerals and Energy Resources
	Economics	Ch – 1; Development
		Ch – 2; Sectors of Indian Economy
		Ch – 3; Money and Credit
	Pre Boards	

## **Subject: Artificial Intelligence**

### **Text Book:**

- 1. Employability Skill Recommended by CBSE**
- 2. Python Content Manual for AI Recommended by CBSE**

<b>MONTH</b>	<b>NAME OF TOPICS</b>	<b>ACTIVITY</b>	<b>LEARNING OUTCOME</b>
	Unit 1: Communication Skills-II	Communication Skills based Activities	Communication Skills will be enhanced
April	Unit 1: Introduction to Artificial Intelligence	Session: What is Intelligence? Session: Decision Making. ● How do you make decisions? ● Make your choices!	To understand Artificial Intelligence
	Unit 4: Data Science	Session: Introduction to Data Science Session: Applications of Data Science Session: Revisiting AI Project Cycle Session: Python for Data Sciences	To understand Data Science



May	Unit 2: Self Management Skills-II	Management Skills based Activities	Management Skills will be enhanced
	Unit 1: Introduction to Artificial Intelligence Unit 2:AI Project Cycle	Session: Introduction to AI and related terminologies. • Introducing AI, ML & DL. • Introduction to AI Domains (Data, CV & NLP) Session: Applications of AI – A look at Real-life AI implementations Session: AI Ethic	To understand Artificial Intelligence Identify the AI Project Cycle framework.
	Unit 5: Computer Vision	Session: Introduction to Computer Vision Session: Applications of CV Session & Activity: Understanding CV Concepts • Pixels • How do computers see images? • Image Features Session: Introduction to OpenCV Hands-on: Image Processing Session: Understanding Convolution operator Activity: Convolution Operator Session: Understanding Convolution operator Activity: Convolution Operator Activity: Testing CNN	To understand Computer Vision
July	Unit 2: Self Management Skills-II	Management Skills based Activities	Management Skills will be enhanced
	Unit 2:AI Project Cycle	Introduction Session: Introduction to AI Project Cycle Problem Scoping Session: Understanding Problem Scoping & Sustainable Development Goals Data Acquisition Session: Simplifying Data Acquisition Data Exploration Session: Visualising Data Modelling Session: Introduction to modelling • Introduction to Rule Based & Learning Based AI Approaches • Introduction to Supervised Unsupervised & Reinforcement Learning Models • Neural Networks Evaluation Session: Evaluating the ide	Identify the AI Project Cycle framework.
	Unit 3: Advance Python	Session: Jupyter Notebook Session: Introduction to Python Session: Python Basics	Acquire Python programming skills in a very user-friendly format.

August	Unit 3: ICT Skills-II	ICT Skills based Activities	ICT Skills will be enhanced
	Unit 6: Natural Language Processing	Introduction Session: Introduction to Natural Language Processing Session: NLP Applications Session: Revisiting AI Project Cycle Chatbots Activity: Introduction to Chatbots Language Differences Session: Human Language VS Computer Language Concepts of Natural Language Processing Hands-on: Text processing • Data Processing • Bag of Words • TFIDF • NLTK	To understand Natural Language Processing
	Unit 3: Advance Python	Session: Jupyter Notebook Session: Introduction to Python Session: Python Basics	Acquire Python programming skills in a very user-friendly format.
September	Unit 3: ICT Skills-II Revision	ICT Skills based Activities	ICT Skills will be enhanced
October	Unit 4: Entrepreneurial Skills-I	Entrepreneurial Skills based Activities	Entrepreneurial Skills will be enhanced
	Unit 7: Evaluation	Introduction Session: Introduction to Model Evaluation Confusion Matrix Session & Activity: Confusion Matrix	To Understanding Accuracy, Precision, Recall & F1 Score Activity: Practice Evaluation
	Unit 3: Advance Python	Python Programming	Acquire Python programming skills in a very user-friendly format.
November	Unit 5: Green Skills-II	Green Skills based Activities	Green Skills will be enhanced
	Unit 7: Evaluation	Evaluation Score Calculation Session: Understanding Accuracy, Precision, Recall & F1 Score Activity: Practice Evaluation	To Understanding Accuracy, Precision, Recall & F1 Score Activity: Practice Evaluation

	Unit 3: Advance Python	Session: Jupyter Notebook Session: Introduction to Python Session: Python Basics	Acquire Python programming skills in a very user-friendly format.
December	Preboard 1		
January	Preboard 2		
February	Revision and Sample papers		

**Periodic Test 1** : Part A- Unit 1 : Communication Skills-II

Part B- Unit 1 : Introduction to Artificial Intelligence

**Periodic Test 2** : Part A- Unit 2 : Self Management Skills-II

Part B- Unit 2 : AI Project Cycle

**Half Yearly Examination**

Part A- Unit 1: Communication Skills-II

Unit 2: Self Management Skills-II

Unit 3 : ICT Skills-II

Part B- Unit 1 : Introduction to Artificial Intelligence (AI)

Unit 2:AI Project Cycle

Unit 6: Natural Language Processing

**Pre board- I (Theory)**

Part A : -Employability Skills

Unit 1: Communication Skills-II

Unit 2: Self Management Skills-II

Unit 3: ICT Skills-II

Unit 4: Entrepreneurial Skills-II

Unit 5: Green Skills-II

Part B: - Subject Specific Skills

Unit 1: Artificial Intelligence

Unit 2: AI Project Cycle

Unit 6 : Natural Language Processing

Unit 7 : Evaluation

## Annual Exam (Practical)

Part B – Unit 3 : Advance Python

Unit 4 : Data Science

Unit 5: Computer Vision

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### SUBJECT - ART

Months	Topics	Expected Learning out come
April	Collage work, texture work, impression painting	Reusing waste material. Developing the creative skill.
May	Colour composition with still life and fruit	Apply the artistic skills of composition.
June	Warli painting, Theory – Elements of Art	Apply the fundamentals of painting in their creations
July	Pattern Design, Clay work	Develop the skill of clay work. Develop the skill of designing.
August	Still life (study of a simple object, study of a group of objects)	To develop the observation skill
September	Revision / Grading	Revision / Grading

October	Simple composition based on any one form of Folk Art such as Madhubani.	Develop the knowledge of Indian Art.
November	Sketches from life and nature in pencil and ink.	Develop the skill of free hand sketching
December	Story of Indian Art	Develop the knowledge of Indian Art.
January	Simple composition based on any one form of Folk Art such as Rangoli.	Develop the knowledge of Indian Art.
Feb, March	Revision/ Grading.	Revision / Grading.

### SUBJECT- DANCE

MONTH	TOPIC
April	शिववंदना के पद संचालनसिखाना व हस्तकोकाभीअभ्यासकराना ।
May	शिववंदना या तांडवस्रोत ।
July	कृष्ण परआधारितदुमरी व गतभाव (छेडछाड) सिखाना ।
August	वर्षा ऋतुपरआधारित शास्त्रीय नृत्य ।
September	पिछलेपाठय् क्रम की पुनरावृत्ति , हस्तमुद्राएं (1 से 32) ।
October	ताल-तीनतालमेंबडीआमद, परनकराना ।

November	राजस्थान की मांडगायकीपरआधारितलोकनृत्य केसरियाबालम
December	तीनतालमें 1 से 10 तक के पलटे (लयकारी ) ।
January	द्रुत लय में 1, 2, 3 व 3, 2, 1 तोडेकराना व चक्करदारतोडेकराना ।
February March	16 चक्कर व गतनिकास ।

### SUBJECT- MUSIC (Vocal)

महीना	प्रकरण
अप्रैल	प्रेरक गीत , ताल तीन ताल परिभाषा संगीत नाद राग खमाज द्रुतख्याल झपताल, राग बिलावल सरगम गीत
मई	सरस्वती वन्दना , चौताल परिभाषाएँ श्रुति, स्वर , राग काफी सरगम गीत
जुलाई	लेकगीत ताल एकताल परिभाषाएँ सप्तक , अलंकार राग काफी तराना
अगस्त	देशभक्ति गीत , ताल दादरा परिभाषाएँ ठाठ , राग आसावरी द्रुतख्याल
सितम्बर	भजन , ताल रूपक, परिभाषाएँ, वादी, सम्वादी, रागभैरव , द्रुतख्याल
अक्टूबर	गणेश वन्दना ताल तीव्र परिभाषाएँ अनुवादी विवादी , राग भैरवी ,
नवम्बर	स्वागत गीत ताल झपताल परिभाषाएँ, आरोह अवरोह , पकड़

दिसम्बर	देशभक्तिगीत , ताल कहरवा , परिभाषाएँ मीडकण
जनवरी	बसन्त गीत ताल दीपचंदी परिभाषाएँ, ताल, ठेका, तराना, ध्रुपद
फरवरी, मार्च	दोहरान

**SUBJECT- Tabla (Instrumental Music)**

महिना	प्रकरण
अप्रैल	तिहाई दमदार , बेदम की तिहाई , मोहरा—टुकडा आदि की जानकारी ।
मई	पेशकार का विस्तार ।
जुलाई	कायदा (दिल्ली बाज)
अगस्त	नगमा (लहरा) के साथ सोलों तबला वादन करना ।
सितम्बर	पूर्व में किये गये अभ्यास का दोहरान ।
अक्टूबर	ताल झपताल का ठेका एवं सम से सम तक तिहाई ।
नवम्बर	ताल झपताल में कायदा दिल्ली धराना ।
दिसम्बर	रूपक ताल में पूर्व में सिखाई गई कायदे को 4—4 पलट सहित बजाना ।
जनवरी	रूपक ताल में दुसरा कायदा पलटों सहित एवं रेला बजाना ।
फरवरी, मार्च	पूर्व में किये गये कार्यों का पुनराभ्यास ।

**SUBJECT-BAND**



MONTH	TOPIC
April	All Instrument Scale
May	Ek Tara March
July	Rajasthan Slow March
August	Congress I March
September	Sare jahan se achcha
October	Slow March Past Practice
November	Almora March
December	Maratha March
January	Sky Vision Slow march
February	Revision
March	