



CAMBRIAN PUBLIC SCHOOL KANKE ROAD RANCHI

Class – IX (Session 2026-27)

LEARNING PLAN OUTCOMES

Subject: English

S. No.	Month	Chapter/Unit Name	Learning Outcomes
1	April	Chapter 1: How I Taught My Grandmother to Read Poem: Bharat Our Land Writing & Grammar- 1. Descriptive Paragraph 2. Determiners	* Analyse the themes of adult literacy, determination, and the shifting dynamics of respect across generations in a family context. * Evaluate the poetic devices and emotional undertones used to express patriotism and cultural pride in the poem. * Apply foundational knowledge of determiners and descriptive paragraph mechanics to write coherent personal or factual reflections.
2	May	Chapter 2: The Pot Maker Poem: Gifts of Grace: Honouring Our Vocations Writing & Grammar- 1. Notice Writing 2. Letter to Editor & Formal E-mail 3. Tenses	* Explain the cultural and economic value of traditional craftsmanship and the dignity of manual labor highlighted in the text. * Identify and differentiate between various vocational callings as portrayed through poetic imagery and symbolism. * Draft structured notices, formal emails, and letters to the editor using appropriate formal register and accurate tense structures.
3	June	Chapter 3: Winds of Change Poem: Canvas of Soil Writing & Grammar- 1. Modals 2. Sentences (Rearrangement & Transformation)	* Analyse how environmental alterations, societal evolution, and human progression impact community traditions and lifestyles. * Interpret the metaphorical relationship between human life and nature as expressed in the poem. * Demonstrate proper command over modals and sentence transformation techniques to vary sentence structures effectively.
4	July	Chapter 4: Vitamin-M Poem: I Cannot Remember My Mother Writing & Grammar- 1. Essay (Descriptive & Narrative)	* Critique contemporary societal values regarding materialism, wealth distribution, and the commercialization of everyday life. * Analyse the poignant expressions of memory, loss, and the enduring subconscious bond between a child and a mother.

		2. Clauses (Noun, Relative & Conditional) 3. Magazine Article 4. Factual Description	* Construct comprehensive descriptive essays, factual descriptions, and magazine articles using advanced clause configurations (noun, relative, and conditional).
5	August	Chapter 5: The World of Limitless Possibilities Poem: Nine Gold Medals Writing & Grammar- 1. Subject-verb concord 2. Reported Speech (commands, statements, questions). 3. Informal Invitation	* Examine narratives surrounding inclusivity, physical challenges, resilience, and breaking barriers in human achievements. * Evaluate the concepts of sportsmanship, true empathy, and collective triumph over individual success as detailed in the poem. * Apply rules of subject-verb concord and reported speech structures to compose grammatically flawless informal invitations and narratives.
6	September		
7	October	Chapter 6: Twin Melodies Poem: A Friend Found in Music	* Compare and contrast the dual expressions of art or musical forms and their roles in driving emotional healing and cultural harmony. * Explain the therapeutic and universal nature of music as a bridge to deep interpersonal connections. * Identify the underlying narrative rhythm and tone shifts within prose and poetry configurations.
8	November	Chapter 7: Carrier of Words Poem: Worlds	* Analyse the evolutionary power of communication, literature, and language in bridging geographical and historical gaps. * Interpret how poetry expands micro-perspectives into macrocosmic universal truths within the poem. * Deconstruct texts to find implied meanings, figurative language, and thematic correlations.
9	December	Chapter 8: Follow That Dream Poem: Believe in Yourself	* Evaluate the psychological importance of goal setting, perseverance, and handling failure on the path to individual success. * Analyse the motivational elements, rhetorical devices, and empowering self-affirmations embedded within the poem. * Synthesize core moral lessons from the text to establish real-world connections regarding self-belief and ambition.

Subject: Hindi

S. No	Month	Name of the lesson	Learning Outcome
1	April	व्याकरण : - संज्ञा - सर्वनाम - विशेषण - शब्द- निर्माण - उपसर्ग एवं प्रत्यय - अनौपचारिक पत्र	विद्यार्थी : - संज्ञा के भेदों की पहचान कर सकेंगे। - वाक्यों में प्रयुक्त संज्ञा शब्दों को पहचान कर उनका सही प्रयोग कर पाएंगे। - वाक्य में प्रयोग सर्वनाम शब्दों का सही वर्गीकरण कर सकेंगे। - सर्वनाम के भेद को पहचान सकेंगे। - संज्ञा के स्थान पर उपयुक्त सर्वनाम का प्रयोग कर भाषा को प्रभावी बना सकेंगे। - संज्ञा या सर्वनाम की विशेषता बताने वाले शब्दों की पहचान कर सकेंगे। - भाषा को प्रभावशाली या आकर्षक बनाने में विशेषण के महत्व को समझ सकेंगे। - विद्यार्थी नए शब्दों का निर्माण कर सकेंगे। - शब्दों के अर्थ एवं प्रयोग को समझ सकेंगे। - उपसर्ग एवं प्रत्यय की पहचान कर सकेंगे। - शब्दों के अर्थ में परिवर्तन को समझ सकेंगे। - पत्र का सही प्रारूप समझ सकेंगे। - विषयानुसार पत्र लिख सकेंगे।
2	May	पाठ्य पुस्तक : दो बैलों की कथा व्याकरण: क्रिया	विद्यार्थी: - कहानी का भाव समझ सकेंगे। - पशुओं के माध्यम से मानवीय संवेदनाओं की पहचान कर सकेंगे। - वाक्य में प्रयुक्त क्रिया शब्दों का सही वर्गीकरण कर सकेंगे। - सकर्मक एवं अकर्मक क्रियो का सही प्रयोग कर सकेंगे। - काल एवं करता के अनुसार क्रिया का शुद्ध प्रयोग कर सकेंगे।

3	June	पाठ्यपुस्तक: 2. क्या लिखूं? 8. पद व्याकरण: अलंकार (केवल शब्द अलंकार)	विद्यार्थी : - लेखक की भावनाओं एवं विचारों को समझ सकेंगे। - सृजनात्मक लेखन के महत्व को पहचान सकेंगे। - अपने विचारों को प्रभावपूर्ण एवं स्पष्ट भाषा में लिख सकेंगे। - रैदास के पदों में निहित भक्ति, मानवता एवं समानता के संदेश को समझ सकेंगे। - पदों का भावार्थ अपने शब्दों में स्पष्ट कर सकेंगे। - कविता के माध्यम से नैतिक मूल्यों एवं सामाजिक समरसता की भावना विकसित कर सकेंगे - शब्द अलंकारों की पहचान कर सकेंगे। - कविता में अलंकारों का महत्व समझ सकेंगे। - उदाहरण सहित अलंकार लिख सकेंगे
4	July	पाठ्य पुस्तक: 9. राम लक्ष्मण परशुराम संवाद 3 संवादहीन संवाद- लेखन अपठित काव्यांश और गद्यांश	विद्यार्थी : - संवाद शैली को समझ सकेंगे। - पात्रों के स्वभाव एवं चरित्र की पहचान कर सकेंगे। - भावपूर्ण वाचन एवं अभिनय कर सकेंगे। - कहानी के माध्यम से मानवीय संबंधों एवं संवाद के महत्व को समझ सकेंगे। - पात्रों की भावनाओं एवं परिस्थितियों का विश्लेषण कर सकेंगे। - प्रभावपूर्ण भाषा में अपने विचार एवं अनुभव व्यक्त कर सकेंगे - उचित भाषा एवं शैली में संवाद लिख सकेंगे। - दैनिक जीवन की परिस्थितियों पर आधारित संवाद लिख सकेंगे. - संवाद में भाव विचार एवं अभिव्यक्ति को प्रभावी ढंग से प्रस्तुत कर सकेंगे. - अपठित गद्यांश एवं पद्यांश को ध्यान पूर्वक पढ़कर समझ सकेंगे। - पठन कौशल एवं समझने की क्षमता का विकास कर सकेंगे।

			• तार्किक एवं विश्लेषणात्मक सोच विकसित कर सकेंगे।
5	August	पाठ्य पुस्तक: 4. ऐसी भी बातें होती हैं 10. भारती, जय, विजय करें व्याकरण: अनुच्छेद लेखन सूचना लेखन	विद्यार्थी : • नैतिक मूल्यों को समझ सकेंगे। • सामाजिक विचारों पर अपने मत व्यक्त कर सकेंगे। • पाठ का सार अपने शब्दों में लिख सकेंगे। • विद्यार्थी देशभक्ति की भावना को समझ सकेंगे। • कविता का भावार्थ लिख सकेंगे। • शुद्ध उच्चारण के साथ कविता पाठ कर सकेंगे। • अनुच्छेद लेखन की संरचना समझ सकेंगे। • उचित शब्दावली एवं व्याकरण का प्रयोग कर सकेंगे। • सूचना का सही प्रारूप समझ सकेंगे। • संक्षिप्त एवं स्पष्ट सूचना लिख सकेंगे। • आवश्यक जानकारी को व्यवस्थित रूप से प्रस्तुत कर सकेंगे।
6	September	Revision + Half Yearly Exam	• अर्धवार्षिक पाठ्यक्रम की पुनरावृत्ति कर सकेंगे। • सीखे गए विषयों का विश्लेषण एवं मूल्यांकन कर सकेंगे।
7	October	पाठ्य पुस्तक 11. झाँसी की रानी व्याकरण : वाक्य भेद केवल अर्थ के आधार पर	विद्यार्थी: • वीर रस एवं साहस की भावना समझ सकेंगे। • ऐतिहासिक घटनाओं की जानकारी प्राप्त कर सकेंगे। • कविता का भाव स्पष्ट कर सकेंगे।
8	November	पाठ्य पुस्तक: 5. आखरी चट्टान तक व्याकरण: अपठित गद्यांश एवं पद्यांश 6. रीढ़ की हड्डी	• यात्रा-वृत्तांत की विशेषताओं को समझ सकेंगे। • प्रकृति वर्णन को पहचान सकेंगे। • साहस एवं अनुभवों को समझ सकेंगे। • गद्यांश एवं पद्यांश का मुख्य भाव समझ सकेंगे। • प्रश्नों के उत्तर स्पष्ट रूप से लिख सकेंगे। • सामाजिक समस्याओं को समझ सकेंगे। • व्यंग्य शैली की पहचान कर सकेंगे। • नाटक के संवादों का प्रभावपूर्ण प्रस्तुतीकरण कर सकेंगे।
9	December	पाठ्य पुस्तक: 12, घर की याद	• कविता के भावों को समझ सकेंगे। • संवेदनाओं एवं स्मृतियों को पहचान सकेंगे।

		7. मैं ओर मेरा देश व्याकरण : संवाद - लेखन	- भावपूर्ण कविता पाठ कर सकेंगे। - राष्ट्रप्रेम की भावना विकसित कर सकेंगे। - भारतीय संस्कृति के महत्व को समझ सकेंगे। - देश के प्रति अपने विचार व्यक्त कर सकेंगे - विषयानुसार संवाद लिख सकेंगे। - भाषा एवं भावों को प्रभावी ढंग से प्रस्तुत कर सकेंगे। - संवाद लेखन के नियमों को समझ सकेंगे।
10	January	Revision	पढ़ाई गए पाठ की पुनरावृत्ति।
11	February + March	Revision + Annual Exam	- आत्मविश्वास के साथ परीक्षा में अपने ज्ञान एवं कौशल का प्रदर्शन कर सकेंगे। - विषयवस्तु का पुनरावलोकन एवं मूल्यांकन कर सकेंगे।

Subject: Sanskrit

S. No	Month	Name of the lesson	Learning Outcome
1	April	व्याकरण : 1. संज्ञा 2. सर्वनाम 3. विशेषण 4. शब्द- निर्माण 5. उपसर्ग एवं प्रत्यय 6. अनौपचारिक पत्र	विद्यार्थी: - संज्ञा के भेदों की पहचान कर सकेंगे। - वाक्यों में प्रयुक्त संज्ञा शब्दों को पहचान कर उनका सही प्रयोग कर पाएंगे। - वाक्य में प्रयोग सर्वनाम शब्दों का सही वर्गीकरण कर सकेंगे। - सर्वनाम के भेद को पहचान सकेंगे। - संज्ञा के स्थान पर उपयुक्त सर्वनाम का प्रयोग कर भाषा को प्रभावी बना सकेंगे। - संज्ञा या सर्वनाम की विशेषता बताने वाले शब्दों की पहचान कर सकेंगे. - भाषा को प्रभावशाली या आकर्षक बनाने में विशेषण के महत्व को समझ सकेंगे। - विद्यार्थी नए शब्दों का निर्माण कर सकेंगे। - शब्दों के अर्थ एवं प्रयोग को समझ सकेंगे - उपसर्ग एवं प्रत्यय की पहचान कर सकेंगे। - शब्दों के अर्थ में परिवर्तन को समझ सकेंगे। - पत्र का सही प्रारूप समझ सकेंगे। - विषयानुसार पत्र लिख सकेंगे।
2	May	पाठ्य पुस्तक:	विद्यार्थी: कहानी का भाव समझ सकेंगे।

		1. दो बैलों की कथा व्याकरण: क्रिया	- पशुओं के माध्यम से मानवीय संवेदनाओं की पहचान कर सकेंगे। - वाक्य में प्रयुक्त क्रिया शब्दों का सही वर्गीकरण कर सकेंगे। - सकर्मक एवं अकर्मक क्रियो का सही प्रयोग कर सकेंगे। - कला एवं करता के अनुसार क्रिया का शुद्ध प्रयोग कर सकेंगे।
3	June	पाठ्यपुस्तक: 2. क्या लिखूँ? 8. पद व्याकरण: अलंकार (केवल शब्द अलंकार)	विद्यार्थी : - लेखक की भावनाओं एवं विचारों को समझ सकेंगे। - सृजनात्मक लेखन के महत्व को पहचान सकेंगे। - अपने विचारों को प्रभावपूर्ण एवं स्पष्ट भाषा में लिख सकेंगे। - रैदास के पदों में निहित भक्ति, मानवता एवं समानता के संदेश को समझ सकेंगे। - पदों का भावार्थ अपने शब्दों में स्पष्ट कर सकेंगे। - कविता के माध्यम से नैतिक मूल्यों एवं सामाजिक समरसता की भावना विकसित कर सकेंगे - शब्द अलंकारों की पहचान कर सकेंगे। - कविता में अलंकारों का महत्व समझ सकेंगे। - उदाहरण सहित अलंकार लिख सकेंगे
4	July	पाठ्य पुस्तक: 9. राम लक्ष्मण परशुराम संवाद 3 संवादहीन संवाद- लेखन	विद्यार्थी : - संवाद शैली को समझ सकेंगे। - पात्रों के स्वभाव एवं चरित्र की पहचान कर सकेंगे। - भावपूर्ण वाचन एवं अभिनय कर सकेंगे। - कहानी के माध्यम से मानवीय संबंधों एवं संवाद के महत्व को समझ सकेंगे। - पात्रों की भावनाओं एवं परिस्थितियों का विश्लेषण कर सकेंगे। - प्रभावपूर्ण भाषा में अपने विचार एवं अनुभव व्यक्त कर सकेंगे - उचित भाषा एवं शैली में संवाद लिख सकेंगे।

		अपठित काव्यांश और गद्यांश	• दैनिक जीवन की परिस्थितियों पर आधारित संवाद लिख सकेंगे. • संवाद में भाव विचार एवं अभिव्यक्ति को प्रभावी ढंग से प्रस्तुत कर सकेंगे. • अपठित गद्यांश एवं पद्यांश को ध्यान पूर्वक पढ़कर समझ सकेंगे। • पठन कौशल एवं समझने की क्षमता का विकास कर सकेंगे। • तार्किक एवं विश्लेषणात्मक सोच विकसित कर सकेंगे।
5	August	पाठ्य पुस्तक: 4. ऐसी भी बातें होती हैं 10. भारती, जय, विजय करें व्याकरण: अनुच्छेद लेखन सूचना लेखन	विद्यार्थी : • नैतिक मूल्यों को समझ सकेंगे। • सामाजिक विचारों पर अपने मत व्यक्त कर सकेंगे। • पाठ का सार अपने शब्दों में लिख सकेंगे। • विद्यार्थी देशभक्ति की भावना को समझ सकेंगे। • कविता का भावार्थ लिख सकेंगे। • शुद्ध उच्चारण के साथ कविता पाठ कर सकेंगे। • अनुच्छेद लेखन की संरचना समझ सकेंगे। • उचित शब्दावली एवं व्याकरण का प्रयोग कर सकेंगे। • सूचना का सही प्रारूप समझ सकेंगे। • संक्षिप्त एवं स्पष्ट सूचना लिख सकेंगे। • आवश्यक जानकारी को व्यवस्थित रूप से प्रस्तुत कर सकेंगे।
6	September	Revision + Half Yearly Exam	• अर्धवार्षिक पाठ्यक्रम की पुनरावृत्ति कर सकेंगे। • सीखे गए विषयों का विश्लेषण एवं मूल्यांकन कर सकेंगे।
7	October	पाठ्य पुस्तक 11. झाँसी की रानी व्याकरण : वाक्य भेद केवल अर्थ के आधार पर	विद्यार्थी: • वीर रस एवं साहस की भावना समझ सकेंगे। • ऐतिहासिक घटनाओं की जानकारी प्राप्त कर सकेंगे। • कविता का भाव स्पष्ट कर सकेंगे।

8	November	पाठ्य पुस्तक: 5.आखरी चट्टान तक व्याकरण: अपठित गद्यांश एवं पद्यांश 6. रीढ़ की हड्डी	- यात्रा-वृत्तांत की विशेषताओं को समझ सकेंगे। - प्रकृति वर्णन को पहचान सकेंगे। - साहस एवं अनुभवों को समझ सकेंगे - गद्यांश एवं पद्यांश का मुख्य भाव समझ सकेंगे। - प्रश्नों के उत्तर स्पष्ट रूप से लिख सकेंगे। - सामाजिक समस्याओं को समझ सकेंगे। - व्यंग्य शैली की पहचान कर सकेंगे। - नाटक के संवादों का प्रभावपूर्ण प्रस्तुतीकरण कर सकेंगे।
9	December	पाठ्य पुस्तक : 12, घर की याद 7. मैं ओर मेरा देश व्याकरण : संवाद - लेखन	- कविता के भावों को समझ सकेंगे। - संवेदनाओं एवं स्मृतियों को पहचान सकेंगे। - भावपूर्ण कविता पाठ कर सकेंगे। - राष्ट्रप्रेम की भावना विकसित कर सकेंगे। - भारतीय संस्कृति के महत्व को समझ सकेंगे। - देश के प्रति अपने विचार व्यक्त कर सकेंगे - विषयानुसार संवाद लिख सकेंगे। - भाषा एवं भावों को प्रभावी ढंग से प्रस्तुत कर सकेंगे। - संवाद लेखन के नियमों को समझ सकेंगे।
10	January	Revision	पढ़ाई गए पाठ की पुनरावृत्ति.।
11	February + March	Revision + Annual Exam	- आत्मविश्वास के साथ परीक्षा में अपने ज्ञान एवं कौशल का प्रदर्शन कर सकेंगे। - विषयवस्तु का पुनरावलोकन एवं मूल्यांकन कर सकेंगे।

Subject: Mathematics

S. No.	Month	Chapters	Learning Outcomes
1	April	Number system	<u>Students will be able to:</u> - Identify natural numbers, whole numbers, integers, rational and irrational numbers. - The method of plotting square root of natural and decimal numbers on the number line. - The laws of exponents. - Develop the ability to analyze and differentiate between various types of numbers. - Perform numerical skills like rationalization techniques on irrational numbers.

		Polynomials	6. Recall of laws of exponents with integral powers, rational exponents with positive real bases. <u>Students will be able to:</u> 1. Classify the polynomials among the algebraic expressions. 2. Understand the degree, Zero of the polynomial and factor theorems. 3. Recall of algebraic expressions and identities.
2	May	Coordinate Geometry	<u>Students will be able to:</u> 1. Analyse the cartesian / co-ordinate plane. 2. The co-ordinate axes. 3. The quadrants and the sign of the co-ordinates of a point in different quadrants. 4. The meaning of origin. 5. Plot the points in the Cartesian plane if the co-ordinates are given. 6. Locate and analyze the quadrant in which the given point lies. 7. Write the co-ordinates of the given point. Plot a point if the x-axis and y-axis co-ordinate points are given, develop critical thinking and collaboration in the process.
3	June	Introduction to Euclid's Geometry Linear equations in two variables.	Students will know about: 1. Euclid's Geometry. 2. Euclid's axioms and postulates. 3. Different axioms and postulates and it's 4. Applications in various geometrical concepts. 5. Non-Euclidean Geometry. <u>Students will be able to:</u> 1. Understand standard form of a linear equation and write the values of a, b and c. 2. To Introduce the equation in two variables. 3. To focus on linear equations of the type $ax + by + c = 0$. Explain that a linear equation in two variables has infinitely many solutions and justify their being written as ordered pairs of real numbers.
4	July	Lines and Angles	<u>Students will be able to:</u> 1. Differentiate between intersecting lines and non-intersecting lines. 2. Pairs of angles. 3. Parallel lines and a transversal. 4. Lines parallel to the same line. 5. Solve and analyze geometrical problems 6. Solve problems related to adjacent angles and linear pair.

		Triangles	7. Use the concept of various angles formed when a transversal intersects 2 parallel lines and their properties. <u>Students will know about:</u> 1. Congruence of triangles. 2. Criteria for congruence of triangles. 3. Some properties of triangles. 4. Locate and identify the various criteria for the congruency. 5. Analyze the various criteria to check whether the given pair of triangles is congruent or not. Use the rules of congruency in combination figures involving triangles.
5	August	Quadrilateral Circles	<u>Students will know about:</u> 1. Properties of quadrilaterals 2. Criteria for proving parallelogram to a rectangle, square and rhombus. 3. Mid-point theorem and its applications. Identify the criteria needed to prove a given quadrilateral a parallelogram, square, rectangle and rhombus. <u>Students will be able to:</u> 1. Understand the concept of Circles and its related terms. 2. Understand angle subtended by a chord, at any point on the circle. 3. Understand and apply the concept of cyclic quadrilateral. 4. Understand and apply the theorems based on circles. 5. Develop the ability to understand and apply the properties of circles and circular regions.
6	September	Sequences and Progressions	<u>Students will be able to:</u> 1. Understand the concept of a sequence of numbers. 2. Identify the pattern in a sequence and predict the next few terms. 3. Determine the recursive and explicit rules for different sequences. 4. Obtain the terms of sequence given its recursive and explicit rule. 5. Identify Arithmetic Progressions (AP). 6. (Half Yearly Exam)
7	October	Area and Perimeter	The student will be able to: 1. Define perimeter as the length around the boundary of any shape. 2. Explain that the circumference-to-diameter ratio is constant for all circles. The student will be able to:

		Surface Areas and Volumes	1. Recognise cuboids and cubes in real-life situations. 2. Compute the surface area and volume of a cuboid. 3. Explain how a cube is a 'special case' of a cuboid. 4. Describe a right circular cylinder using its radius and height. 5. Compute the surface area and volume of a cylinder. 6. Recognise cones in daily life, and describe them using radius and height.
8	November	Heron's Formula	The student will be able to use: 1. The formula for calculating area of an equilateral triangle, right angled triangle. 2. Heron's formula for calculation the area of a triangle whose all the three sides are given. 3. Find the area of the given triangles easily by using the learnt formulas. Use Heron's formula efficiently and thus would be able to find the area of a triangle whose three sides would be given.
9	December	Statistics	The student can: 1. Collect data. 2. Present data. Graphical representation of data-bar graph, Histogram with varying base lengths, frequency polygon.
10	January	Introduction to Probability	The student will be able to understand: 1. Concept of probability and randomness 2. The probability scales 3. Empirical probability: analysing statistical data and performing experiments 4. Theoretical probability: sample space and events

Subject: Physics

S. No.	Month	Chapters	Learning Outcomes
1	April	Bridge Course	• Understand basic concepts of measurement, force, motion and energy. • Identify physical quantities and SI units correctly. • Develop observation and scientific reasoning skills. • Relate Physics concepts with daily life situations. • Draw and interpret simple diagrams and

			graphs. • Use scientific vocabulary confidently. • Prepare effectively for Class IX Physics concepts.
		Motion	• Differentiate between distance and displacement. • Explain speed, velocity and acceleration. • Interpret distance-time and velocity-time graphs. • Describe uniform and non-uniform motion. • Solve numerical problems based on motion.
2	May	Motion	• Apply equations of motion in problem solving. • Analyze graphical representation of motion. • Explain uniformly accelerated motion. • Develop logical thinking through numerical applications. • Relate motion concepts to real-life examples.
3	June	Force and Laws of Motion	• Define force and its effects. • Explain balanced and unbalanced forces. • State and explain Newton's First Law of Motion. • Describe inertia and its applications. • Relate laws of motion to daily life activities.
4	July	Force and Laws of Motion	• State and explain Newton's Second and Third Laws of Motion. • Define momentum and conservation of momentum. • Solve numerical problems related to force and momentum. • Analyze action and reaction forces in daily life. • Develop experimental and analytical skills.
5	August	Work, Energy and Simple Machines	• Define work and Identify conditions for work done. • Differentiate between kinetic and potential energy. • Explain law of conservation of energy. • Describe mechanical advantage and efficiency of machines. • Identify types and uses of simple machines.
6	September	Revision & Half Yearly Examination	• Revise and strengthen conceptual understanding of all chapters. • Develop problem-solving and critical

			thinking skills. • Improve analytical and application-based learning. • Enhance examination readiness through assignments and tests.
7	October	Sound	• Explain production and propagation of sound. • Differentiate between longitudinal and transverse waves. • Define frequency, amplitude and time period. • Relate pitch and loudness with sound properties. • Interpret wave motion through diagrams.
8	November	Sound	• Explain reflection of sound and echo. • Describe applications of ultrasound. • Analyze noise pollution and preventive measures. • Solve numerical problems related to sound. • Relate sound concepts with practical applications.
9	December	Work, Energy and Sound Revision	• Strengthen conceptual clarity through revision. • Apply concepts in case-study and numerical questions. • Develop scientific reasoning and presentation skills. • Improve confidence through sample paper practice.
10	January	Revision	• Identify learning gaps and improvement conceptual clarity. • Strengthen numerical and analytical skills. • Develop effective examination strategies. • Improve confidence through revision activities.
	February & March	Revision and Assessments Annual Examination	• Consolidate concepts learned throughout the session. • Strengthen logical thinking and application-based learning. • Prepare effectively for the Annual Examination. • Improve accuracy and scientific reasoning skills.

Subject: Chemistry

S. No.	Month	Chapters	Learning Outcomes
1	April	Bridge Course	Learner will be able to recall previous knowledge related to matter, atoms, environment and basic scientific concepts for smooth transition to Class IX Chemistry.
		Exploring Mixtures and Their Separation	Learner will be able to differentiate between mixtures and pure substances based on their composition and properties.
2	May	Exploring Mixtures and Their Separation	Learner will be able to classify mixtures and apply suitable separation techniques such as filtration, evaporation, decantation and chromatography in daily-life situations.
3	June	Exploring Mixtures and Their Separation	Learner will be able to analyse the importance of separation methods in household, laboratory and industrial processes.
4	July	The Journey of Atom	Learner will be able to describe the historical development of atomic models proposed by various scientists.
5	August	The Journey of Atom	Learner will be able to compare different atomic models and explain their limitations and significance.
6	September	Atoms and Molecules	Learner will be able to explain laws of chemical combination using suitable examples and activities.
7	October	Atoms and Molecules	Learner will be able to write chemical formulae of compounds using valencies and symbols correctly.
8	November	Atoms and Molecules	Learner will be able to calculate molecular mass and formula mass of substances and apply concepts in solving numerical problems.
9	December	Earth as a System — Biological Cycles	Learner will be able to explain biological cycles such as water cycle, nitrogen cycle and oxygen cycle and analyse their importance in maintaining ecological balance.
10	January	Revision and Brushing Up of the Content Taught Throughout the Session	Learner will be able to recall, revise and strengthen concepts learned during the academic session for better understanding and application.
	February	Revision, Brushing Up of Content and Pre-Annual Examination Preparation	Learner will be able to integrate scientific concepts effectively and improve analytical and application-based skills for examinations.
	March	Final Revision, Brushing Up of Content and Annual Examination	Learner will be able to confidently apply scientific concepts and perform effectively in the Annual Examination.

Subject: Biology

S. No.	Month	Chapters	Learning Outcomes
1	April	Bridge Course	After completion of the bridge course, students will be unable to: • Explain the characteristics of living organisms. • Identify parts and functions of plant and animal cells. • Differentiate between plant tissues and animal tissues. • Classify organisms into basic groups. • Understand the importance of nutrition and hygiene. • Draw and label basic Biology diagrams correctly. • Develop observation and scientific thinking skills. • Use simple scientific vocabulary confidently. • Relate biological concepts with daily life. • Prepare for Class IX Biology concepts effectively.
		Ch – Cell	Students will be able to: • Differentiate between plant and animal cell, prokaryote and eukaryote • Describe the structural and functional features of cells • Explain the role of cells in the structural and functions of organisms • Explain activities inside the cell and its interactions with the environment • Demonstrate osmosis in cells Prepare slides to observe cell structure
2	May	Ch – Cell	Students will be able to: • Differentiate between diffusion and osmosis • Explain the role of cell division mitosis and meiosis in creating similarities and variations • Identify and describe the role of biomolecules in the structure and function of cell • Cite case study related to the <i>use of science</i> in human life, 1or example. Leigh Syndrome and mitochondrial dysfunction • Apply learning of structure and function of muscles cells or joints in dance form and/or sports.
3	June	Ch – Cell	Students will be able to:

			• Recognise that the cell is a structural unit of life and functional unit of life processes • Pose questions, such as — Can we create artificial cell which behaves exactly like a natural living cell? • Exhibit creativity and design models using low cost or no-cost eco-friendly material to study structure and functions of cell and cell organelles • Carry out an experiment to understand osmosis • Analyze result and present finding using scientific terms
4	July	Ch – Tissue	• Students will be able to: • Differentiate between plant and animal tissues; meristematic and permanent tissues; simple and complex tissues; parenchyma, collenchyma and sclerenchyma; xylem and phloem; striated smooth and cardiac muscles • Different types of joints • Relate the structure of the different types of tissues with their functions • Explain the role of various types of tissues in plants and animals • Describe the level of organisation in a multicellular organism
5	August	Ch – Tissue	Students will be able to • Describe the level of organisation in a multicellular organism • Establish the correlation between different tissues for fitness, for example, role of muscles, cartilage and bones in facilitating movement • Explain the importance of yoga exercise for physical agility and in maintaining the correct posture • Discuss significant contributions of India, for example, Professor Sipra Guha Mukherjee and Professor S.C. Maheshwari for their significant contribution in the plant cell and tissue culture research in India • Discuss the techniques and medical recommendations in recovery from muscular injuries
6	September	Revision Half Yearly Examination	• Revise and strengthen conceptual understanding of all chapters. • Develop problem-solving and critical thinking skills.

			• Improve analytical and application-based learning it rough case-study questions. • Enhance examination readiness through assignments and tests.
7	October	Ch – Diversity	Students will be able to • Distinguish organisms based on certain characteristics, such as number of cells present, cellular organisation and mode of nutrition • Classify various organisms in group, such as five kingdoms, on the basis of their cellular organisation and ecological role • Describe the significance and rules of binomial nomenclature • Apply binomial nomenclature on some common organisms in their surroundings • Analyse the interactions between members of different groups of organisms, such as lichens • Discuss ecological role of diverse organisms • Recognise three domains of classification of organisms on molecular basis
8	November	Ch – Reproduction	Students will be able to: • Analyse the interactions between members of different groups of organisms, such as plants and pollinators • Compare asexual and sexual reproduction • Describe male and female reproductive organs in plants and animals • Differentiate between ovule and seed; ovary and fruit • Explain pollination and fertilisation • Explain how variations are introduced by sexual reproduction • Identify and explain the role of biotic and abiotic agents in seed dispersal and pollination • Illustrate the structure of male and female reproductive units or systems in plants and animals • Recognise the significance of contraceptive devices for population control and health including reproductive health
9	December	Ch – Reproduction	Students will be able to • Explain how variations are introduced by sexual reproduction • Identify and explain the role of biotic and abiotic agents in seed dispersal and pollination • Illustrate the structure of male and female reproductive units or systems in plants and

			animals • Recognise the significance of contraceptive devices for population control and health including reproductive health Describe the contribution of India to the understanding of human anatomy • Discuss significant contributions of India. for example, Professor Panchanan Maheshwari for laying the foundation of plant cell and tissue culture research in India • Recognise the importance of improvements in medical field for assisted reproductive technologies • Pose questions, such as — How do heavy metals harm reproductive organs? Can extreme heat affect fertility?
10	January	Revision	• Identify learning gaps and improve conceptual clarity. • Strengthen scientific reasoning and presentation skills. • Improve confidence through sample paper practice and revision activities. • Develop effective examination strategies and time-management skills.
	February & March	Revision and Assessments Annual Examination	• Consolidate concepts learned throughout the academic session. • Strengthen accuracy, logical thinking, and application-based learning. • Prepare effectively for the Annual Examination.

Subject: History

S. No.	Month		Chapters	Learning Outcomes
1	April	History	Part - 1 1. Early Human and Beginning of civilisation	Helps to explain the lifestyle, tools, food habits and discoveries of early humans during the Stone Age and beginning of civilization.
		Geography	1. Shaping of the Earth's surface	Helps to describe the concept of plate tectonics and analyze its relevance in understanding Earth's dynamics.
		Political Science	1. Understanding Social Science	Helps to explain the relevance of studying Social Science to understand society, environment, economy, and governance in our lives.
		Economics	1. Building Blocks in Economics	Explain the meaning of scarcity, choice, and opportunity cost in everyday life, and economic decision-making.

2	May	History	1. Early Humans and Beginning of civilization	Describe the social, political, and religion structures of the civilizations of Harappa & Mesopotamia Egypt & china.
		Geography	1. Shaping of the Earth's surface	Explain the causes of natural disasters and purpose strategies for their mitigation.
		Political Science	1. Understanding Social science	Appreciate diversity, inclusivity sustainability, and equity as guiding values when studying society and making decisions.
		Economics	1. Building Blocks in Economics	Recognize how economic analysis helps in policy-making and solving real-world issues.
3	June	History	2. State and Society (upto 1000 CE)	Explain various facets of Vedic society and polity.
		Geography	2. The Dynamic Atmosphere and Changing Climate	Explain the different atmospheric layers, Observe and analyze local winds and their impact.
		Political Science	2. Democracy	Understand the features of democracy and appreciate early democratic traditions in India and how they influenced modern democracy.
		Economics	2. The Price Puzzle: What Drives the Market	Explain the Law of Demand and Supply with the help of real-life examples.
4	July	History	2. State and Society (up to 1000 CE)	Understand the foundations of the Indian social and political institutions and their continuity.
		Geography	2. The Dynamic Atmosphere and Changing Climate	Understand the impact of the Indian monsoon on life, agriculture, and livelihoods across different regions.
		Political Science	2. Democracy	Identify examples of both parliamentary and presidential systems across countries, such as India, USA, France.
		Economics	2. The Price Puzzle: What Drives the	Analyze how changes in market conditions (e.g., increase in demand or supply) lead to surplus or shortage and affect equilibrium. Explain the concept of price ceilings and how they can lead to shortages or black markets.
5	August	History	2. State and Society (upto to 1000CE)	Appreciate the achievements of Indian empires and their cultural legacy.
		Geography	2. The Dynamic Atmosphere and Changing Climate	Explain the causes and effects of climate change. Represent climatic data (temperature, rainfall, etc.) through appropriate graphs, charts, or diagrams.
		Political	3. Elections	Identify factors highlighting importance of

		Science		election in a democracy. Categorize three types of electoral systems.
		Economics	2.The Price Puzzle: What Drives the Market	Understand market failures and identify their main types.
6	September	History	Part – 2 3. Building a Resilient India (1000-1700 CE)	Explain the cultural, political and military contributions of regional Kingdoms in India.
		Geography	3.Water in the Ocean	Explain the movement of ocean waters, including waves, tides, and currents. And analyze the connections between ocean currents, and global and regional climate patterns.
		Political Science	3.Elections	Define the concept of delimitation and its purpose in the Indian electoral system.
		Economics	3.From Ideas to Startups	Understand the key resources for business and explain how resources are managed to produce goods and services.
7	October	History	3.Building a Resilient India (1000-1700 CE)	Explain the cultural, political, and military contributions of regional kingdoms in India.
		Geography	3.Water in the Ocean	Understand the importance of marine resources for human livelihoods and ecosystems.
		Political Science	4. Authority	Explain the roots of authority in Indian political thought and Interpret the relationship between (disciplined force) and Nyaya (justice) as the twin foundations of authority, development, and security
		Economics	3.From Ideas to Startups	Describe the features of India's start-up ecosystem and initiatives like Make in India, Startup India, and Digital India
8	November	History	4.India and The World-I (1900 BC-1200 CE)	Explore India's relations with early civilizations of the world and identify the major articles of trade and the major trading ports.
		Geography	3.Disaster Preparedness and Regulatory Frameworks	Investigate the causes of forest fires in the local area, and prepare a plan for mitigation and prevention.
		Political Science	4.Wuthority	Trace the evolution of authority
		Economics	3.From Ideas to Startups	Recognize the role of Micro, Small, and Medium Enterprises (MSMEs) and the unorganized sector in promoting employment, innovation, and inclusive growth.

9	December	History	4. India and The World-1 (1900 BC- 1200 CE)	Appreciate the significant contributions of India in diverse spheres in an integrated manner.
		Geography	4. Forests, Diversity and Livelihood	Analyze the concept of ecotourism and discuss its role in promoting sustainable forest ecosystem and conservation.
		Political Science	4. Authority	Develop an understanding of citizen discipline, justice, and strength.
		Economics	4. Smart Ways to Manage Your Finances	Explain what personal financial management means and why it is essential in everyday life.
10	January	History	4. India and The World-1 (1900 BC- 1200 CE)	Appreciate the influence of Indian religion and culture, particularly in Southeast Asia
		Geography	3. Disaster Preparedness and Regulatory Frameworks	Investigate the causes of forest fires in the local area, and prepare a plan for mitigation and prevention.
		Political Science	4. Authority	Illustrate role of citizens in authority.
		Economics	3. From Ideas to Startups	Identify and explain the stages of starting a business from developing an idea to creating and executing a business plan.
		February & March	Revision and Assessment	

Subject: Information Technology (402)

S. No.	Month	Chapters	Learning Outcomes
1	April	PART-A 1. Communication Skills-	• Demonstrate knowledge of effective communication methods. • Identify barriers to communication and apply solutions. • Apply active listening and proper speaking skills. • Write clear, grammatically correct sentences
		2. Self-Management Skills-1	• Analyze personal strengths and weaknesses (SWOT analysis). • Develop self-confidence and a positive attitude. • Practice personal hygiene and grooming standards. • Demonstrate self-control and time management techniques.
		PART-B 2. Data Entry & Keyboarding Skills	• Master touch-typing rules using typing software. • Adopt correct typing

			ergonomics and seating postures. • Improve typing speed, accuracy, and efficiency. • Identify key functions on standard computer keyboards
2	May	PART-A 3. ICT SKILLS	• Identify basic hardware components and peripheral devices. • Perform fundamental computer operations like troubleshooting and setup.
3	June	PART-A 3. ICT SKILLS	• Manage files, folders, and basic system utilities. • Understand the role of ICT in daily life.
		PART-B 1. Introduction to ITeS Industry	• Understand the structure of the IT-BPM industry. • Identify key applications of IT across sectors. • Differentiate between IT and IT-enabled services (ITeS). • Explore job roles within the data entry industry. •
4	July	PART-B 3. Digital Documentation	• Create, edit, and format professional word documents. • Insert images, shapes, and structural tables. • Apply advanced features like Mail Merge efficiently. • Configure print preview and page layout configurations
5	August	PART-B 4. Electronic Spreadsheet	• Create tabular structures using rows and cells. • Apply simple formulas and complex built-in functions.
6	September		
7	October	PART-A 4. Entrepreneurial Skills-I	• Distinguish between various business activities and types. • Identify key characteristics of successful entrepreneurs. • Understand the role of entrepreneurship in society. • Appreciate risk-taking and problem-solving behaviors
		PART-B 4. Electronic Spreadsheet	• Implement relative, absolute, and mixed cell referencing. • Generate column, pie, and bar analytical charts

8	November	PART-A 5. Green Skills-I	• Explain the importance of environment and ecosystems. • Identify factors causing environmental imbalances. • Adopt sustainable habits in daily life. • Understand the concept of a green economy.
9	December	PART - B 5. Digital Presentation	• Design clean and impactful visual presentation slides. • Incorporate transitions, animations, and graphic designs. • Deliver slideshows smoothly utilizing built-in navigator tools. • Save and export presentation files across formats.
10	January		
