

1. Listens attentively to stories, poems, narratives, lectures, and instructions in English and responds appropriately.
2. Participates in oral activities like discussions, debates, skits, role-plays, and group conversations with confidence and proper intonation.
3. Reads aloud fluently with appropriate pronunciation, rhythm, pauses, and expressions from a variety of literary texts.
4. Comprehends the main idea, plot, sequence of events, and characters in stories, poems, biographies, and travelogues.
5. Answers questions orally or in writing based on texts like prose, poetry, articles, and unseen comprehension passages.
6. Uses contextual clues to deduce the meanings of unfamiliar words and phrases, thereby enriching their active vocabulary.
7. Refers to dictionaries and other reference materials to find the correct spellings, meanings, and usage of words.
8. Appreciates literary devices such as imagery, rhyme schemes, alliteration, metaphors, and similes within poetry.
9. Applies grammatical rules accurately including appropriate use of tenses, modal verbs, subject-verb agreement, determiners, and conjunctions.
10. Writes organized paragraphs and short essays on familiar or imaginative themes using correct punctuation and logical coherence.
11. Produces functional writing pieces such as informal letters, formal applications, emails, dialogue scripts, and simple messages.
12. Engages in creative writing by composing short poems, descriptive sketches, journal entries, and stories using original ideas.
13. Edits and revises their own written drafts or peer work to correct errors in spelling, grammar, punctuation, and sentence structure.
14. Identifies and reflects on social issues such as environmental protection, gender equity, empathy, and inclusivity highlighted in various literary texts.
15. Asks and responds to questions based on texts or out of genuine curiosity, using appropriate open-ended and closed-ended phrasing.
16. Reads informational prints and signage in public domains, such as notice boards, public hoardings, newspapers, and online guidelines to extract key information.

17. Takes organized notes while listening to the teacher, watching educational videos, or extracting facts from reference books.
18. Thinks critically about themes, systematically comparing and contrasting different characters, story events, and real-life parallels.
19. Reads a diverse range of genres for personal pleasure, independently exploring science fiction, historical accounts, folk tales, and travelogues.
20. Demonstrates digital media literacy by locating, validating, and reading academic information hosted on verified electronic portals.
21. Employs correct punctuation markers including semicolons, colons, hyphenations, and quotation marks to delineate structure in longer text pieces.
22. Constructs clear complex and compound sentences utilizing relative clauses, conditional statements, and advanced transition words.
23. Participates in language games like crosswords, anagrams, word-building exercises, and vocabulary quizzes to foster natural phrase recall.
24. Delivers short, structured oral presentations on specific topics using visuals, cues, or slide titles with a steady pacing and volume.

- विद्यार्थी गद्य, पद्य एवं अन्य पाठों का शुद्ध उच्चारण, प्रवाह और उचित भाव के साथ वाचन कर सकेंगे।
- विद्यार्थी पाठ का मुख्य विचार, संदेश तथा प्रमुख घटनाओं को समझकर अपने शब्दों में व्यक्त कर सकेंगे।
- विद्यार्थी नए शब्दों का अर्थ समझकर उनका उचित संदर्भ में मौखिक एवं लिखित प्रयोग कर सकेंगे।
- विद्यार्थी भाषा के व्याकरणिक तत्वों (संज्ञा, सर्वनाम, विशेषण, क्रिया, काल, वचन, लिंग, विराम चिह्न आदि) का सही प्रयोग कर सकेंगे।
- विद्यार्थी अपठित गद्यांश एवं पद्यांश को पढ़कर प्रश्नों के उत्तर, निष्कर्ष तथा आवश्यक जानकारी प्राप्त कर सकेंगे।
- विद्यार्थी विभिन्न रचनात्मक लेखन कार्यों जैसे अनुच्छेद, संवाद, पत्र, सूचना, विज्ञापन एवं कहानी लेखन में अपने विचार स्पष्ट एवं प्रभावी ढंग से व्यक्त कर सकेंगे।
- विद्यार्थी सुनने, बोलने, पढ़ने और लिखने (LSRW) कौशलों का संतुलित एवं प्रभावी विकास प्रदर्शित करेंगे।
- विद्यार्थी साहित्य के माध्यम से नैतिक मूल्यों, सामाजिक उत्तरदायित्व, पर्यावरण संरक्षण तथा भारतीय संस्कृति के प्रति सकारात्मक दृष्टिकोण विकसित करेंगे।
- विद्यार्थी शब्दकोश, पुस्तकालय, डिजिटल संसाधनों एवं ICT उपकरणों का उपयोग कर स्वतंत्र रूप से जानकारी एकत्र एवं प्रस्तुत कर सकेंगे।
- विद्यार्थी समूह कार्य, परियोजना कार्य एवं गतिविधि-आधारित अधिगम में सहयोग, आलोचनात्मक चिंतन, सृजनात्मकता तथा प्रभावी संप्रेषण कौशल का प्रदर्शन कर सकेंगे।

1. ಕನ್ನಡ ಭಾಷೆಯ ಮೇಲಿನ ಆಸಕ್ತಿ ಮತ್ತು ಅಭಿಮಾನವನ್ನು ಬೆಳೆಸಿಕೊಳ್ಳುತ್ತಾರೆ.
2. ಸ್ಪಷ್ಟವಾಗಿ, ಶುದ್ಧವಾಗಿ ಮತ್ತು ಆತ್ಮವಿಶ್ವಾಸದಿಂದ ಓದುತ್ತಾರೆ.
3. ಪಠ್ಯದ ಮುಖ್ಯ ಆಶಯವನ್ನು ಅರ್ಥಮಾಡಿಕೊಳ್ಳುತ್ತಾರೆ.
4. ಪದ್ಯಗಳ ಭಾವಾರ್ಥವನ್ನು ತಮ್ಮ ಮಾತುಗಳಲ್ಲಿ ವಿವರಿಸುತ್ತಾರೆ.
5. ಕಥೆ, ಲೇಖನ ಹಾಗೂ ನಾಟಕಗಳ ಸಂದೇಶವನ್ನು ಗ್ರಹಿಸುತ್ತಾರೆ.
6. ಹೊಸ ಪದಗಳ ಅರ್ಥವನ್ನು ತಿಳಿದು ಸರಿಯಾಗಿ ಬಳಸುತ್ತಾರೆ.
7. ನಾಮಪದ, ಸರ್ವನಾಮ, ಕ್ರಿಯಾಪದಗಳನ್ನು ಗುರುತಿಸುತ್ತಾರೆ.
8. ವಿಶೇಷಣ ಮತ್ತು ಕ್ರಿಯಾವಿಶೇಷಣಗಳನ್ನು ಸರಿಯಾಗಿ ಬಳಸುತ್ತಾರೆ.
9. ವಿಭಕ್ತಿ ಪ್ರತ್ಯಯಗಳನ್ನು ಗುರುತಿಸಿ ವಾಕ್ಯಗಳಲ್ಲಿ ಬಳಸುತ್ತಾರೆ.
10. ಸಂಧಿ ಮತ್ತು ಸಮಾಸಗಳ ಮೂಲಭೂತ ಅರಿವನ್ನು ಪಡೆಯುತ್ತಾರೆ.
11. ವಾಕ್ಯರಚನೆಯ ನಿಯಮಗಳನ್ನು ಪಾಲಿಸಿ ಶುದ್ಧ ವಾಕ್ಯಗಳನ್ನು ರಚಿಸುತ್ತಾರೆ.
12. ವಿರಾಮಚಿಹ್ನೆಗಳನ್ನು ಸರಿಯಾದ ಸ್ಥಳದಲ್ಲಿ ಬಳಸುತ್ತಾರೆ.
13. ಶುದ್ಧ ಕಾಗುಣಿತದೊಂದಿಗೆ ಬರೆಯುತ್ತಾರೆ.
14. ಸರಳ ಹಾಗೂ ಸಂಕೀರ್ಣ ವಾಕ್ಯಗಳನ್ನು ರಚಿಸುತ್ತಾರೆ.
15. ಗದ್ಯ ಮತ್ತು ಪದ್ಯಗಳ ನಡುವಿನ ವ್ಯತ್ಯಾಸವನ್ನು ಗುರುತಿಸುತ್ತಾರೆ.
16. ಪಠ್ಯದಿಂದ ಮುಖ್ಯ ಅಂಶಗಳನ್ನು ಆಯ್ದು ಸಾರಾಂಶ ಬರೆಯುತ್ತಾರೆ.
17. ಪತ್ರ, ಅರ್ಜಿ ಹಾಗೂ ಆಹ್ವಾನ ಪತ್ರಗಳನ್ನು ಬರೆಯುತ್ತಾರೆ.
18. ಸಂಭಾಷಣೆಯನ್ನು ರಚಿಸುವ ಕೌಶಲ್ಯವನ್ನು ಬೆಳೆಸಿಕೊಳ್ಳುತ್ತಾರೆ.
19. ಚಿತ್ರವನ್ನು ನೋಡಿ ಕಥೆ ಅಥವಾ ವಿವರಣೆ ಬರೆಯುತ್ತಾರೆ.
20. ಗಾದೆಮಾತು ಮತ್ತು ನುಡಿಗಟ್ಟುಗಳ ಅರ್ಥವನ್ನು ತಿಳಿದು ಬಳಸುತ್ತಾರೆ.
21. ಕನ್ನಡ ವ್ಯಾಕರಣದ ನಿಯಮಗಳನ್ನು ಬರವಣಿಗೆಯಲ್ಲಿ ಅನ್ವಯಿಸುತ್ತಾರೆ.
22. ಪಠ್ಯಾಧಾರಿತ ಪ್ರಶ್ನೆಗಳಿಗೆ ಸೂಕ್ತ ಉತ್ತರಗಳನ್ನು ಬರೆಯುತ್ತಾರೆ.

23. ಕೇಳಿದ ಮಾಹಿತಿಯನ್ನು ಅರ್ಥಮಾಡಿಕೊಂಡು ಪ್ರತಿಕ್ರಿಯಿಸುತ್ತಾರೆ.
24. ತಮ್ಮ ಅಭಿಪ್ರಾಯಗಳನ್ನು ಸ್ಪಷ್ಟವಾಗಿ ಮೌಖಿಕವಾಗಿ ವ್ಯಕ್ತಪಡಿಸುತ್ತಾರೆ.
25. ಗುಂಪು ಚರ್ಚೆ ಮತ್ತು ವಾದ-ವಿವಾದಗಳಲ್ಲಿ ಭಾಗವಹಿಸುತ್ತಾರೆ.
26. ಸಾಹಿತ್ಯದ ಮೂಲಕ ನೈತಿಕ ಮೌಲ್ಯಗಳನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳುತ್ತಾರೆ.
27. ಪರಿಸರ, ಸಮಾಜ ಮತ್ತು ಸಂಸ್ಕೃತಿಯ ಬಗ್ಗೆ ಅರಿವು ಬೆಳೆಸಿಕೊಳ್ಳುತ್ತಾರೆ.
28. ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಪ್ರಮುಖ ಕವಿಗಳು ಮತ್ತು ಲೇಖಕರ ಪರಿಚಯ ಪಡೆಯುತ್ತಾರೆ.
29. ಭಾಷೆಯ ಸೌಂದರ್ಯ ಮತ್ತು ಸಾಹಿತ್ಯಾಸ್ವಾದನೆಯನ್ನು ಅನುಭವಿಸುತ್ತಾರೆ.
30. ಸೃಜನಾತ್ಮಕ ಬರವಣಿಗೆಯ ಕೌಶಲ್ಯವನ್ನು ಅಭಿವೃದ್ಧಿಪಡಿಸುತ್ತಾರೆ.
31. ಸ್ವಯಂ ಅಧ್ಯಯನದ ಅಭ್ಯಾಸವನ್ನು ರೂಢಿಸಿಕೊಳ್ಳುತ್ತಾರೆ.
32. ಮಾಹಿತಿ ಸಂಗ್ರಹಿಸಿ ಕ್ರಮಬದ್ಧವಾಗಿ ಮಂಡಿಸುತ್ತಾರೆ.
33. ದೈನಂದಿನ ಜೀವನದಲ್ಲಿ ಶಿಷ್ಟ ಹಾಗೂ ಪರಿಣಾಮಕಾರಿ ಕನ್ನಡವನ್ನು ಬಳಸುತ್ತಾರೆ.
34. ಓದು, ಬರವಣಿಗೆ, ಆಲಿಸುವಿಕೆ ಮತ್ತು ಮಾತನಾಡುವಿಕೆ ಎಂಬ ನಾಲ್ಕು ಭಾಷಾ ಕೌಶಲ್ಯಗಳನ್ನು ಅಭಿವೃದ್ಧಿಪಡಿಸುತ್ತಾರೆ.
- 35.. ಕನ್ನಡ ಭಾಷೆಯನ್ನು ಆತ್ಮವಿಶ್ವಾಸದಿಂದ ವಿವಿಧ ಶೈಕ್ಷಣಿಕ ಹಾಗೂ ಸಾಮಾಜಿಕ ಸಂದರ್ಭಗಳಲ್ಲಿ ಪರಿಣಾಮಕಾರಿಯಾಗಿ ಬಳಸುತ್ತಾರೆ.

Chapter No.	Chapter Name	Learning Outcomes
1	Large Numbers Around Us	Students will be able to:• Read, write, compare and order large numbers in the Indian and International number systems.• Express numbers in standard and expanded forms.• Round off and estimate large numbers.• Solve real-life problems involving large numbers.
2	Arithmetic Expressions	Students will be able to:• Understand arithmetic expressions and mathematical symbols.• Apply the BODMAS rule to simplify expressions.• Evaluate expressions involving brackets.• Solve daily-life problems using arithmetic expressions.
3	A Peek Beyond the Point	Students will be able to:• Understand place value in decimal numbers.• Read, write, compare and order decimals.• Represent decimals on a number line.• Add and subtract decimal numbers accurately.• Apply decimals in real-life situations involving money and measurements.
4	Expressions Using Letters and Numbers	Students will be able to:• Recognise variables and constants.• Write algebraic expressions from verbal statements.• Interpret algebraic expressions.• Identify patterns and generalise using variables.
5	Parallel and Intersecting Lines	Students will be able to:• Identify parallel, intersecting and perpendicular lines.• Recognise different pairs of angles formed by intersecting lines.• Draw and construct geometrical figures accurately using mathematical instruments.• Apply geometrical concepts in everyday life.
6	Number Play	Students will be able to:• Identify number patterns and sequences.• Apply divisibility rules to solve problems.• Use logical reasoning to solve number puzzles.• Develop problem-solving and analytical thinking skills.
7	A Tale of Three Intersecting Lines	Students will be able to:• Identify and classify triangles based on sides and angles.• Verify properties of triangles.• Construct triangles using given measurements.• Apply triangle properties to solve practical problems.
8	Working with Fractions	Students will be able to:• Compare and simplify fractions.• Perform addition, subtraction, multiplication and division of fractions.• Represent fractions visually and on a number line.• Solve real-life problems involving fractions.

Part 2 1	Congruence (Geometric twins)	1. Understand the concept of congruence as equality in shape and size. 2. Identify congruent figures in 2D shapes and real-life objects. 3. Recognize congruent line segments, angles, triangles, and other polygons. 4. Compare shapes based on their sides and angles to determine congruence. 5. Understand that congruent figures have identical corresponding parts. 6. Apply the idea of congruence using transformations such as translation, rotation, and reflection. 7. Verify congruence using tracing paper and superposition method. 8. Identify corresponding sides, angles, and vertices in congruent shapes. 9. Differentiate between congruent and similar figures. 10. Construct congruent figures using geometrical tools. 11. Solve simple problems involving congruence of shapes. 12. Develop spatial reasoning and visualization skills. 13. Observe and identify congruence in real-life objects like tiles, patterns, and designs. 14. Strengthen logical thinking and geometric reasoning through congruence activities. 15. Build confidence in analysing and constructing congruent geometric figures accurately.
2	Operations on Integers	Understand the concept of integers and their representation on a number line. 2. Identify positive integers, negative integers, and zero. 3. Compare and order integers using mathematical symbols. 4. Represent integers in real-life contexts such as temperature, profit and loss, and elevation. 5. Perform addition of integers using rules and number line methods. 6. Perform subtraction of integers accurately. 7. Apply rules for multiplication of integers involving positive and negative numbers. 8. Apply rules for division of integers correctly. 9. Understand and use properties of operations on integers such as commutative and associative properties.

3	HCF and LCM	Understand the concepts of Highest Common Factor (HCF) and Lowest Common Multiple (LCM). 2. Identify factors and multiples of given numbers. 3. Differentiate between HCF and LCM based on their meaning and application. 4. Find the HCF of two or more numbers using listing, prime factorization, and division methods. 5. Find the LCM of two or more numbers using listing, prime factorization, and division methods.
4	Multiplication and Division of Decimals	Understand the rules and procedures for multiplication and division of decimal numbers. 2. Multiply decimal numbers accurately by whole numbers and other decimals. 3. Divide decimal numbers by whole numbers and decimals correctly. 4. Apply proper placement of the decimal point during calculations. Estimate products and quotients of decimals to verify the reasonableness of answers. 7. Solve word problems involving multiplication and division of decimals. 8. Apply decimal operations in real -life situations such as money, measurements, and shopping. 9. Use place value understanding to perform decimal calculations efficiently. 10. Develop accuracy and fluency in computations involving decimals. 11. Compare results obtained through estimation and exact calculation. 12. Identify and correct common errors in decimal operations. 13. Strengthen logical reasoning and problem -solving skills through practical applications. 14. Use mathematical vocabulary related to decimal operations confidently and correctly. 15. Build confidence in handling decimal calculations independently in everyday situations.
5	Connecting the Dots	Understand the concept of coordinate geometry and plotting points on a plane. 2. Identify the x -axis, y -axis, origin, and quadrants in the coordinate plane.

		3. Read and write coordinates in the correct order (x, y). 4. Plot points accurately on a Cartesian plane. 5. Locate given points using their coordinates.
6	Constructions and Tiling's	Understand the concept of geometric constructions and tiling patterns. 2. Identify different types of tiles and tessellations used in mathematics and daily life. 3. Recognize shapes that can tessellate without gaps or overlaps. 4. Explore regular and irregular tiling patterns. 5. Construct simple geometric designs using basic shapes. 6. Use geometrical instruments accurately for constructions.
7	Finding the Unknown	Understand the concept of variables and unknown quantities in mathematics. 2. Represent unknown values using letters or symbols. 3. Form simple algebraic equations from verbal statements and real-life situations. 4. Identify the components of an equation such as variables, constants, and operations. 5. Solve simple linear equations involving one variable. 6. Apply inverse operations to find unknown values. Translate word problems into mathematical equations. 9. Solve practical problems involving unknown quantities. 10. Understand the balance concept in maintaining equality in equations. 11. Develop logical reasoning and analytical thinking through equation solving. 12. Improve accuracy and systematic problem solving skills. 13. Use mathematical vocabulary related to equations and variables correctly. 14. Apply algebraic thinking in everyday mathematical situations. 15. Build confidence in solving problems involving unknown numbers independently.

Ch-1-Ever evolving world of science

- Explain how different branches of science (biology, physics, chemistry, earth science) connect to each other.
- Describe examples of how curiosity-driven experiments led to real-world discoveries.
- Design a simple experiment, make predictions, carry it out, and record results.
- Reflect on findings to ask new questions and suggest improvements to methods.

Ch-2-Exploring substances-Acidic,basic and neutral.

- Examine the common substances used at home based on taste and touch and classify them as acidic or basic.
- Summarises observations concerning the behaviour of indicators in acidic and basic solutions.
- Identify neutralisation reactions and their characteristics.
- Summarizes observations concerning the behaviour of indicators in acidic and basic solutions.
- Identify neutralisation reactions and their characteristics.
- Illustrates neutralisation reactions seen in everyday life.
- Evaluate the effectiveness of certain neutralization reactions employed in everyday life, based on observed data.

Ch-3-Electricity-components and circuits

- Examine how an electric current can be used as a magnet to list its uses.
- Outline the construction and uses of electromagnets and electric bells.
- Translate a circuit with actual components into a circuit diagram.
- Observe the heating effect of current in order to enlist its uses and compare it for conductors of different materials, lengths and thicknesses.
- Perform a simple activity to demonstrate the magnetic effect of an electric current.
- Recall the precautions to be observed while working with electricity.
- Summarize the benefits of using CFLs over ordinary electric bulbs.

Ch-4-World of metals and non metals

- List the properties of metals and non metals
- Differentiate between metals and non metals based on their properties.
- Define and differentiate between metals and non-metals:
- Identify different types of commonly used metals and non-metals and their uses.

- Explain physical properties of metals and non-metals like, conductivity malleability, ductility, etc
- Explain chemical properties of metals and non-metals:
- Explain the concept of corrosion, its causes, and methods of prevention, including rusting of iron.
- Explain the concept of alloys and their uses:
- Apply their understanding of metals and non-metals to solve real-world problems, such as determining the appropriate material for a specific application.

Ch-5-Changes around us-Physical and chemical changes

- Infer the effects which help you to identify a physical change.
- Summarize various features accompanying chemical change.
- Evaluate a given set of changes (in everyday life) on attributes of physical or chemical changes to distinguish between them.
- Defend why rusting of iron is a chemical change.
- Differentiates physical changes from other changes (periodic changes etc) to characterize the common feature of physical changes.
- Design an experiment to prevent rusting by eliminating/ controlling a particular condition for rusting.
- Illustrate the usage of crystallization in the purification of various salts.
- Judge why better crystallization occurs at lower temperatures.
- Extrapolate the understanding of chemical change to the new term Chemical Reaction & Chemical Bonding.
- Illustrates chemical change with specific examples.

Ch-6-Adolescence

- Understand that adolescence is the period of transition from childhood to adulthood, generally from ages 10 to 19.
- Identify the physical, biological, and emotional changes that are characteristic of adolescence
- Understand that puberty is the stage when my body changes and becomes capable of reproduction.
- Recognize the emotional and behavioural changes that adolescents may go through and understand that they are a normal part of growing up.
- Differentiate between primary and secondary sexual characteristics.
- Differentiate between the secondary sexual characteristics of boys and girls.
- Understand the importance of eating a balanced diet, maintaining hygiene, and staying physically active to keep oneself healthy during adolescence.

- Identify harmful substances like tobacco, alcohol, and drugs, and I am aware of the importance of saying 'NO' to them for my well-being.
- List the role of different hormones in reproduction.

Ch-7-Heat transfer in nature

- Explain the three methods of heat transfer: conduction, convection, and radiation and their applications in daily life situations.
- Differentiate between the three methods of heat transfer: conduction, convection.
- Distinguish between good conductors and poor conductors.
- Identify materials that are good conductors and poor conductors (insulators) of heat.
- Explain how convection involves the movement of particles and give examples like land and sea breezes.
- Explain how all objects exchange heat with their surroundings through radiation.
- Relate the principles of heat transfer to the design of houses and clothing.
- Describe the stages of the water cycle, including evaporation, condensation, precipitation, and collection.
- Define the term infiltration as the process by which surface water seeps into the ground.
- Identify aquifers as underground layers that store water and explain their importance in water storage.

Ch-8-Measurement,time and motion

- Paraphrase the to and fro motion of a simple pendulum/metallic bob suspended by a string as oscillatory motion.
- Recall the change in position of the body concerning surroundings as motion.
- Identify repetition of natural events at definite/regular intervals of time/fraction of a second to describe periodicity.
- Infer from the given data that the time is taken to complete one oscillation as the period of the simple pendulum.
- Paraphrase the to and fro motion of a simple pendulum/metallic bob suspended by a string as oscillatory motion.
- Recall the definition of speed (average speed) as distance covered in unit time.
- Recall the instrument used to measure speed.
- Derive the mathematical formula to calculate speed to compare the speeds of various moving objects (uniform and non-uniform motion).
- Calculate speed distance or time taken if any two of these three quantities are provided.

- Utilise data given in the odometer to measure distance travelled and average speed for a given time.
- Record data for distance covered in fixed intervals of time for a moving object to plot a distance-time graph and interpret the shape.

Ch-9-Life processes in Animals

- Illustrate the human digestive system with the help of a well-labelled diagram & elaborate on the process & function of each part.
- Perform the starch test on raw and chewed food to infer the role of saliva..
- Summarize the functions of the Human digestive system
- Compare & contrast the features of the digestive system of grass-eating animals with those of humans.
- Define cellular respiration to differentiate between aerobic and anaerobic respiration.
- Examine inhalation, exhalation and breathing rate in your own body to analyse the effect of various activities on breathing rate.
- Observe the reaction of exhaled air with lime water to infer the gas exhaled.
- Examine inhalation, exhalation and breathing rate in your own body to analyse the effect of various activities on breathing rate.
- List the functions performed by a cell to infer the need of energy for various processes.
- Recall details/definitions of terminology related to respiration in humans.
- Describe the process of breathing in humans to explain the role of nostrils (hair and mucus), trachea, lungs, ribs and diaphragm.
- Describe the process of respiration fish .
- Define cellular respiration to differentiate between aerobic and anaerobic respiration.
- Examine inhalation, exhalation and breathing rate in own body to analyse the effect of various activities on breathing rate.
- Describe the process of breathing in humans to explain the role of nostrils (hair and mucus), trachea, lungs, ribs and diaphragm.

Ch-10-Life processes in plants

- Explain why food is important for all living organisms.
- Describe the process of photosynthesis in plants.
- Identify the role of leaves in food production.
- Explain the function of stomata in leaves.
- Describe how water, minerals, and food are transported in plants.
- Explain how plants use glucose to release energy.

- Describe the process of photosynthesis with the help of a word/chemical equation.
- Draw a schematic diagram of a section through a leaf to represent photosynthesis pictorially.

Ch-11-Light shadow and reflections

- Identify luminous objects as those that emit their own light.
- Explain that light travels in a straight line.
- Describe how light interacts with different materials:
- Differentiate between transparent, translucent and opaque objects.
- Explain how shadows are formed when an object blocks light.
- Describe how a pinhole camera works.
- Describe the reflection of light as the change in direction when light bounces off a surface like a mirror.
- Explain the properties of the image formed by a plane mirror:

Ch-12-Earth, Moon and the sun

- Explain that the Earth rotates on its axis and takes about 24 hours to complete one rotation.
- Describe how the rotation of the Earth from west to east causes day and night.
- Explain the apparent daily motion of the Sun, Moon, and stars due to Earth's rotation.
- Describe the Earth's revolution around the Sun and know that it takes nearly one year to complete.
- Explain how the tilt of the Earth's axis and its spherical shape cause seasons.
- Describe a solar eclipse as the event when the Moon blocks sunlight from reaching the Earth.
- Describe a lunar eclipse as the event when the Earth blocks sunlight from reaching the Moon.

Chapter	Learning Outcomes (Students will be able to...)
1. Geographical Diversity of India	- Identify and locate major physical features of India on maps. - Explain how relief, rivers, and climate influence human activities. - Appreciate India's geographical diversity.
2. Understanding the Weather	- Differentiate between weather and climate. - Interpret weather elements such as temperature, rainfall, humidity, and wind. - Explain factors affecting weather conditions.
3. Climates of India	- Describe the climatic regions of India. - Explain the influence of the monsoon. - Relate climate to agriculture, vegetation, and human life.
4. New Beginnings: Cities and States	- Explain the emergence of early cities and states. - Describe political, social, and economic developments in ancient India. - Interpret historical evidence from archaeological and literary sources.
5. The Rise of Empires	- Describe the rise and expansion of major empires. - Explain systems of administration and governance. - Analyse the contributions of rulers to society and culture.
6. The Age of Reorganisation	- Explain political and cultural developments after major empires. - Identify important kingdoms and their contributions. - Recognise changes in trade, religion, and society.
7. The Gupta Era: An Age of Tireless Creativity	- Explain the achievements of the Gupta period in science, mathematics, literature, and art. - Appreciate India's intellectual and cultural heritage. - Analyse the significance of the Gupta age.

8. How the Land Becomes Sacred	• Explain how places acquire cultural and spiritual significance. • Recognise the role of traditions, beliefs, and heritage in society. • Respect India's diverse cultural practices.
9. From the Rulers to the Ruled: Types of Governments	• Differentiate among various forms of government. • Explain the features of democracy. • Appreciate citizen participation in governance.
10. The Constitution of India – An Introduction	• Explain the purpose and importance of the Constitution. • Describe Fundamental Rights, Fundamental Duties, and constitutional values. • Recognise equality, justice, liberty, and fraternity as democratic ideals.
11. From Barter to Money	• Explain the evolution of barter to money. • Describe the functions and importance of money. • Understand the role of money in trade and economic development.
12. Understanding Markets	• Explain how markets function. • Identify producers, consumers, and intermediaries. • Analyse the relationship between demand, supply, and prices.
13. The Story of Indian Farming	• Describe agricultural practices in different regions of India. • Explain factors affecting agriculture. • Appreciate the importance of sustainable farming.
14. India and Her Neighbours	• Locate neighbouring countries on a map. • Explain India's geographical and cultural links with neighbouring nations. • Appreciate regional cooperation and interdependence.
15. Empires and Kingdoms: 6th to 10th Centuries	• Describe major kingdoms of early medieval India. • Explain administrative, cultural, and economic developments. • Analyse historical continuity and change.

16. Turning Tides: 11th and 12th Centuries	• Explain political developments during the 11th–12th centuries. • Describe changes in trade, society, and culture. • Interpret historical events using evidence.
17. India, A Home to Many	• Appreciate India's pluralistic society. • Explain how different communities contributed to Indian culture. • Demonstrate respect for diversity and inclusion.
18. The State, the Government, and You	• Explain the structure and functions of state government. • Describe the relationship between citizens and government. • Recognise civic responsibilities.
19. Infrastructure: Engine of India's Development	• Explain the importance of transport, communication, and energy infrastructure. • Analyse the role of infrastructure in economic development. • Recognise the need for sustainable development.
20. Banks and the Magic of Finance	• Explain the functions of banks. • Describe saving, borrowing, and digital banking. • Develop awareness of responsible financial practices.

Overall Learning Outcomes

By the end of Class 7, learners should be able to:

- Use maps, globes, timelines, charts, and other sources to understand geographical, historical, and civic concepts.
- Explain the interaction between the physical environment, climate, natural resources, and human activities.
- Analyse historical developments and appreciate India's cultural heritage and diversity.
- Understand the principles of democracy, the Constitution, governance, and the role of citizens.
- Explain the functioning of markets, banks, infrastructure, agriculture, and other economic activities.

- Demonstrate critical thinking, inquiry, observation, interpretation, and problem-solving skills.
- Communicate ideas effectively through discussions, projects, presentations, and written work.
- Appreciate constitutional values, equality, diversity, environmental sustainability, and responsible citizenship.
- Apply social science concepts to everyday life and contemporary issues.
- Develop respect for cultural diversity, cooperation, ethical behaviour, and informed decision-making.
