

ANNUAL PEDAGOGICAL PLAN (SESSION 2026-27)

CLASS-10th

SUB- MATHEMATICS

MONTH	Chapter	Content Area/Concept	Learning Outcome	WORKING DAYS
MARCH	1. Real Numbers	Fundamental Theorem of Arithmetic Irrational Numbers	Generalizes properties of numbers and relations among them studied earlier, to evolve results, such as, fundamental theorem of arithmetic in order to apply them to solve problems related to real life contexts	10
APRIL	2. Polynomials	Zeroes of a Polynomial Relationship between Zeroes and Coefficients of a Polynomial	Uses algebraic and graphical method of finding zeroes of a polynomial in order to establish a relationship between them	12
JUNE	3. Pair of Linear equations in two variables	Introduction and Properties of Linear equations and non-linear equations Graphical Method of Solution of a Pair of Linear Equations Algebraic method for solving Linear Equations.	Uses graphical and other methods in order to finds solutions of pairs of linear equations in two variables	15
JULY	4. Quadratic Equations	Standard form of a quadratic equation. Solution of Quadratic equation by factorization and quadratic formula. Nature of roots.	Related to day to day activities.	10
	5. Arithmetic Progression	Introduction to Arithmetic Progressions-	Develops strategies in order to apply the concept of AP to daily life situations	11

		nth term of AP nth term of AP Sum of an AP Sum of an AP Last term of an AP Last term of an AP		
AUGUST	6. Triangles	Similar figures Similarity of triangles Criteria for similarity of Triangles Basics of Graphs	Uses reasoning in order to differentiate between congruent and similar figures Uses different geometric criteria established earlier such as basic proportionality theorem etc. in order to establish properties for similarity of two triangles Derives formulae to establish relations for geometrical shapes	13
	7. Co-ordinate Geometry	Distance Formula Section Formula	in the context of a coordinate plane, such as finding the distance between two given points, in order to determine coordinates of a point between any two given points,	12
SEPTEMBER	8. Introduction to Trigonometry	Trigonometric Ratios Trigonometric Ratios of Some Specific Angles Trigonometric Identities. Heights and Distances	Determines all trigonometric ratios with respect to a given acute angle (of a right triangle) in order to use them in solving problems in daily life contexts like finding heights of different structures or distances from them.	12
OCTOBER	9. Some Application of Trigonometry	Simple problems on heights and distances. Angles of Elevation/Depression	Determines all trigonometric ratios with respect to a given acute angle (of a right triangle) in order to use them in solving problems in daily life contexts like finding heights of different structures or distances from them.	6
	10. Circles	Tangent to a Circle Number of Tangents from a Point on a Circle	Demonstrates three possibilities for intersection of a line and a circle in a plane and then defines tangent and secant to circle Understands the results of circle and proves the theorem - 2 tangents drawn from external point are equal in length,	6

	11. Areas related to circles	Perimeter and Area of a Circle — A Review Areas of Sector and Segment of a Circle Areas of Combinations of Plane Figures	geometrically and practically. Applies the theorems in various problems. Recalls the concept of circumference of circle and solves problems of daily life situations. Identifies and applies the terms major/minor sector, major/minor segment, angle subtended by the arc at the centre. Applies the formulas of area of sector, segment and length of an arc in the problems. Calculates area of combined plane figures.	7
NOVEMBER	12. Surface areas and volumes	Surface Area of a Combination of Solids Volume of a Combination of Solids Conversion of Solid from One Shape to Another Applications of surface areas and volumes.	Visualizes objects in surrounding as a combination of different solids like cylinder and a cone, cylinder and a hemisphere, combination of different cubes etc.in order to find their surface areas and volumes	10
	13. Statistics	Mean of Grouped Data Mode of Grouped Data Median of Grouped Data Mean, median and mode	Calculates mean, median and mode in order to apply them to real life contexts	8
	14. Probability	Probability — A Theoretical Approach	Calculates and determine the probability of a given event	2
DECEMBER		REVISION		
JANUARY		REVISION		
FEBRUARY		FINAL EXAM		
MARCH		FINAL EXAM		

MONTH	TOPIC	METHODOLOGY/ACTIVITIES	LEARNING OUTCOMES	WORKING DAYS
MARCH 2026	<u>FIRST FLIGHT</u> Unit 1 – A Letter to God Poem – Dust of Snow Fire and Ice <u>FOOT PRINTS</u> Unit 1 – A Triumph of Surgery <u>GRAMMAR</u> Determiners	- Reading and explanation of the lesson and the poem. - The learners will be actively participating in reading the lesson turn wise. The lesson will be divided into particular paragraphs for them resulting in their oral communication check. - All the questions asked will be attempted by the learner first and then the answers will be discussed. - Reinforcement will be given to each learner with positive feedback. - Old knowledge will be linked with the new knowledge for better learning experience. - The teacher will explain Prepositions and Determiners through PPT - The students will be given tasks of writing different kinds of formal letters. - participate in interactive tasks and activities. ✎ take notes and respond accordingly, making use of appropriate vocabulary, and sense of audience while listening to people around. ✎ engage themselves in conversation, dialogue, discussion and discourse in peer-peer mode, and with teacher on various themes.	-writes personal, official and business letters, articles, debates, paragraphs based on visual or verbal clues, textual inputs, etc. -consults or refers to dictionary, periodicals, and books for academic and other purposes; and uses them in speech and writing. - Speaks while participating in interactive tasks in order to demonstrate fluency in the language - Identifies and appreciates significant literary elements such as figurative language – metaphor, imagery, symbol, simile, intention / point of view, rhyme scheme, etc. In order to demonstrate understanding of their significance in literature and narratives. - Talks on key contemporary issues like social justice, environment, gender, etc.	13

			In speech and writing in order to demonstrate awareness and empathy for key issues, research skills and ability to reason. - The students will gain confidence in speaking in front of others through debates. - Development of critical thinking and logical reasoning. - Understanding of terms used in computers or internets. - The students will be able to organize their thoughts and express freely. - Identification and uses of Determiner and Prepositions - Recite the poem with proper rhythm and tone. - Decision making and being alert in life. - Importance of family and time spent with them. - They would be able to develop an interest toward reading and self-study.	
	<u>FIRST FLIGHT</u> Unit 2 - Nelson Mandela: Long Walk to Freedom Poem 3 – Tiger in the Zoo <u>FOOT PRINTS</u> Unit 2 - The Thief's Story Unit 3 - Two Stories of Flying a) His First Flight	- Reading and explanation of the lesson and the poem. - Dividing the lesson into paragraphs for active participation of the students through reading. - Videos related to people who have gained success through determination, hard work and courage. -Activities:	-Reads, comprehends, and responds to complex texts independently in order to demonstrate transition -speaks with coherence and cohesion while participating in interactive tasks.	

APRIL 2026	b) Black Aeroplane Poem 4 – How to tell Wild Animals <u>GRAMMAR</u> Subject verb Concord <u>WRITING SKILLS</u> Letter to Editor	- MCQ's - One word answer. - Short story replay. - Quizzes. -read stories and literary texts — both fiction and non-fiction with understanding for pleasure and enjoyment; discuss on characters. - Discussing about various character in the fictions read	-uses language appropriate to purposes and perspectives. -talks on key contemporary issues like social justice, environment, gender, etc., in speech and writing. - Usage of appropriate phrases. - Critical thinking and logical reasoning. - Sharing thoughts and expressing themselves. - Proper recitation of the poem with proper rhythm. - Improved skill of using a dictionary. - Development of writing skill. -collects evidences and discusses in groups for reading autobiographies, history and science based literary texts	13
JUNE2024	<u>FIRST FLIGHT</u> Poem 5 - The Ball Poem Poem 6 – Amanda Poem 7 – Trees FOOTPRINTS Unit 3 The Midnight Visitor <u>GRAMMAR</u> Subject – Modals <u>WRITING SKILLS</u> Letter of complaint	- Reading and explanation of the lesson and the poem. - Reading done by students individually. - Discussion on important words and sentences. - Retelling of the story. - Exercise related to usage of dictionary. - Narration of the story by the students individually. -Writing short paragraph on intital attempt to learn a skill and Experience of being alone during a thunderstorm	- Proper recitation of the poem with rhythm. - Improvement of reading skill. - Motivation for the use of dictionary. - Logical thinking and expression of their thoughts freely. - Development of speaking and writing skill. - Understanding the importance of the	10

			relationship between children and parents. - Able to voice their opinions and express their ideas. - Development of free flowing language. - Will be able to relate to the stories and share childhood stories. - They will be able to frame sentences using Sub-Verb Concord - Identify rhyming words and rhythm of the poem.	
JULY 2026	<u>FIRST FLIGHT</u> Unit 4 - From the Diary of Anne Frank Unit 7 – Glimpses of India a) A Baker from Goa b) Coorg c) Tea from Assam <u>FOOT PRINTS</u> Unit 4 - A Question of Trust Unit 5 – Foot Print without Feet Unit 6 -The Making of Scientist <u>GRAMMAR</u> Tense <u>WRITING SKILLS</u> Letter of Enquiry	- Reading and explanation of the lesson and the poem. - Division of the lesson into paragraphs for the students to read individually. - Exercise of providing different headings to different paragraphs. - Question and answers - Exercises - Games and quizzes - Worksheets - Discussion and solution of grammar exercises at the end of the lesson. - Fun activity related to express the ideas. - Writing task based on a sketch from a photograph that tells a story. - Task to learn unfamiliar spellings. - Narration of the story. - Introduction of the topic Tenses and its usage. - Co-relation between past, present and future tense. - Worksheets on tenses.	- Understanding of the lesson. - Ability to pick out difficult words and sentences from the lesson. - Apt use of dictionary. - Ability to pick out rhyming words and sentences from the poem. - Less hesitation to speak in front of groups. - Expressing their ideas and thoughts freely. - Confidence to form stories in their own sentences. - Enhancement of writing skill. - Courage - Vigilant mindset. - To express opinions on the basis of logical reasoning. - To be able to write rhymes on their own.	25

		-Task to write, what all the student need to learn to pursue a career. -Role play of various character of the fiction -exercise on thinking about language - Task of speaking on favorite beverage/food -collect information about Goa, Coorg and Assam.	- To explain the reason behind their ideas. - Importance of having an open mind. - Explain the chapter and answer basic questions on it. -talks about literary devices like onomatopoeic sounds, symbols, metaphors, alliterations, comparisons, allusions	
AUGUST 2026	<u>FIRST FLIGHT</u> Unit 8 – Mijbil the Otter Unit 9 - Madam Rides The Bus Poem 8 – Fog Poem 9- The Tale Of Custard the Dragon <u>FOOT PRINTS</u> Unit 7 - The Necklace <u>GRAMMAR</u> Reported Speech <u>WRITING SKILLS</u> Letter of Placing order	- Recitation and explanation of the poem and the chapter. - Discussion on childhood stories the students can remember. - Presenting a short story on the before and after of a particular place. - Dictionary work to identify the contexts, literal and metaphorical, in which the given words occur. - Exercise on rearrangement of jumbled words/paragraphs. - Speaking exercise. - MCQ's - Short question and answers. - One word answers. - Short stories. -Task of speaking on favorite beverage/food -collect info. about Goa, Coorg and Assam.	- Student will learn the basic definition, parts, and structure of a paragraph. Student will write paragraphs that include a main idea, or topic. - Comprehend meaning of the different words by looking into dictionary. - Explain the chapters and answer questions based on it. - To express opinions on the basis of logical reasoning. - Enable them to think critically and provide reasons for their choices. - Comprehend meaning of the different words by looking into dictionary. - Vocabulary building by usage of new words, phrases, idioms etc. in sentences of your own. -talks about literary	25

			devices like onomatopoeic sounds, symbols, metaphors, alliterations, comparisons, allusions, poet's / writer's point of view, etc	
SEPTEMBER 2026	<u>FIRST FLIGHT</u> Unit 10- The Sermon of Benares . <u>FOOTPRINTS</u> Unit 8- Bholi	- Recitation of the poem and reading of the chapter. - Dividing the chapter into paragraphs for the students to read individually. - Sharing stories related to unusual pets. -Talking about someone you love and care. - Sharing the story of any adventure done in life all alone. -to share with class about planning something entirely by yourself and its end result. - Group discussion on short travelling stories shared in the classroom. - Explaining the importance of self-motivation. - Short answer. - Question/answer. - At the end of the text questions will be attempted by the learners. - Reference To Context will be given.	- The students will be able to understand the importance of taking the right decision at the right time. - The students will gain confidence in speaking in front of others through debates. - Development of critical thinking and logical reasoning. - The students will be able to organize their thoughts and express freely. - Recite the poem with proper rhythm and tone. -Listens for information, gist and details and responds to in order to demonstrate comprehension and ability to infer questions accordingly, - Decision making and being alert in life. - Vocabulary building by usage of new words, phrases, idioms etc. in sentences of your own. - The learners would be able to organize their thoughts and express freely.	25

			- Enable them to think critically and provide reasons for their choices. - Value of 'Experience' and intent of sharing the same for the others benefits. - Sharing their personal experiences with free mindset. - Reads stories and literary texts - both fiction and nonfiction with understanding for pleasure and enjoyment in order to demonstrate ability to discuss about these with Comprehension and reasoning skills.	
OCTOBER 2026	<u>FIRST FLIGHT</u> Unit 11 The Proposal(Play) Poem 10 - For Anne Gregory <u>GRAMMAR</u> Error Correction <u>WRITING SKILLS</u> Analytical Paragraph	- Listen and say the words aloud. - Model reading. - Reading and understanding the story/poem. - Learners will read the text in chunks (the text may be divided into three or four sections) followed by oral comprehension check. - At the end of the text questions will be attempted by the learners. - Reference To Context will be given. - Through connection of previous knowledge with current knowledge introduction to the topic. - Write on your experience on teaching someone a new thing/or to overcome difficult times. -infer answers through discussions	- Development of critical thinking and logical reasoning. - The students will be able to organize their thoughts and express freely. - Recite the poem with proper rhythm and tone. - Use of different Literary devices - Vocabulary building by usage of new words, phrases, idioms etc. in sentences of your own. - Enable them to think critically and provide reasons for their choices.	18

		-analyze the poem in real life situation and infer the essence	- Value of 'Experience' and intent of sharing the same for the others benefits. - Sharing their personal experiences with free mindset. - communicates thoughts, ideas, views and opinions verbally and non-verbally.	
NOVEMBER2026	<u>FOOT PRINTS</u> Unit 9 – The Book that Saved the Earth	-reading of the chapter. - Dividing the chapter into paragraphs for the students to read individually. - Explaining the importance of self-motivation. - Question/answer. - At the end of the text questions will be attempted by the learners. - Reference To Context will be given. - Through connection of previous knowledge with current knowledge introduction to the topic. - Worksheets to enhance the knowledge. -identify the different types of conflict within the story -understand the characterization and other ability to infer. - element of the story	- The students will gain confidence in speaking in front of others through debates. - Development of critical thinking and logical reasoning. - The students will be able to organize their thoughts and express freely. - Decision making and being alert in life. - Importance of education. - They would be able to develop an interest toward reading and self-study. - Sharing personal experiences without any hesitation. - Free and logical thinking. - ill effects of anger -need of anger management -	24
DECEMBER	REVISION FOR PREBOARD EXAMS			

JANUARY & FEBRUARY	REVISION FOR BOARD EXAMS			
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SUB- PHYSICS

Month	Topics	Methodology /activities	Learning objectives	Working days
March	Light- reflection and refraction. Reflection of light. Spherical Mirrors.	Recapitulation of laws of reflection of light. Explanation and the demonstration of various types of mirror using a spoon.	Students will understand how the light reflects in different types of mirror.	3
APRIL	Representation of image formed by spherical mirror using ray diagram. Uses of concave mirror and convex mirror. Mirror formula and magnification	Explanation of various terms related to Mirror. Teacher will illustrate how to draw a ray diagram. Explain the rules to follow to draw the ray diagram. Discussion. Deduction. Questioning. Problem solving	Type of mirror to be used . Learn different terms related to mirror Students will learn to calculate the image distance, object distance. And magnification.	7

JUNE	Refraction . LAWS of refraction. Refraction through a rectangular glass slab. The refractive index. Refraction by spherical lens. Image formation in lens using ray diagram. Lens formula and magnification. Power of a lens	Demonstration of refraction . Explanation of various optical phenomena in nature. Demonstration of refraction of light through a rectangular glass slab. Explanation of the rules to follow to draw a ray diagram in a lens. Illustrate how to draw a ray diagram through a lens. Discussion. Questioning. Problem solving for refractive index and the lens. Magnification. Explanation of power of the lens. Calculation of power of a lens and the power of combination of two or more lenses.	Students will understand various phenomena taking place in nature. What type of lens to be used . Students can calculate the power of a lens	4
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JULY	Human eye and the colourful world. The human eye. Power of accommodation. Defect of vision and their correction. Refraction of light through a prism. Dispersion of white light by a glass prism.	Explanation of various parts of the eye using a diagram or a model. Discussion on the power of accommodation. Questioning about various eye defects of the eye. Explaining the defect and correction using a ray diagram. Explaining and demonstrating the refraction of light through a prism and cause of dispersion. The teacher will illustrate how to draw the ray through a prism	Students will know the importance of each part of the eyes and its function. Why can a person see near objects as well as far objects? Why defect is caused and the reason behind it. What happens when a Ray of light passes through the prism.	8
	Atmospheric refraction and scattering of light. Applications in daily life.	Asking appropriate questions related to the rainbow formation. Demonstration Explaining the formation of rainbow,. Asking questions about the twinkling of stars. Advance sunrise and delayed sunset. And explain them with the help of a diagram. Explaining the tyndall effect and why the colour of the clear sky is blue .	Students will understand the reason for the formation of the rainbow, conditions that have to be followed to form a rainbow. The phenomenon behind the twinkling of stars. The scientific reason behind the colours.	4

AUGUST	Electricity * introduction to electric current *electric potential and potential difference *circuit diagram *Ohm's law *factors on which resistance of a conductor depends	Giving an example deduce the definition of an electric circuit *show them the devices like key,battery, resistor, voltmeter and ammeter etc and explain the role of each of them in an electric circuit *demonstration for the variation of V with I *explanation * small video * asking appropriate question *discussion	the students will be able to *define an electric circuit , electric current electric potential resistance resistivity * read ammeter and voltmeter* *deduce Ohm's law experimentally. *Solve numerical problems related to current ,potential differential,resistance. *distinguish between resistance and resistivity. * relate how resistance varies with length area of cross section and nature of material of the conductor *identify the various components of the electric circuit *appreciate the role of various devices in an electric circuit *draw a circuit diagram *make electric circuit	8
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SEPTEMBER	* resistance of system of resistors *heating effect of electric current * electric power	* demonstration of series and parallel combination of resistance *discussion on students observation *appropriate questioning *explanation *questioning *deduction *problem solving	*role of resistor in a circuit * role of fuse in a domestic circuit *joules law of heating effect of electric current. *relation between the commercial unit and SI unit of electricity. *electrical energy consumed in a domestic circuit(calculate the bill of electricity consumed in a household)	5
OCTOBER	Magnetic effects of electric current *magnetic field *field lines * field due to the current carrying conductor *field due to the current carrying coil and solenoid *force on a current carrying conductor *Fleming's left hand rule	*small video or demonstration and deductive approach for various activities. * deflection of compass needle on passing an electric circuit through a metallic conductor. * aligning of iron filings near the bar magnet. * field lines around a bar magnet. * magnetic field lines of a field produced by a current carrying straight conductor ,circular loop and solenoid. *discussion *appropriate questioning *explanation	students will understand. * properties of magnet * the relation of electric current and magnetism. *Direction of force in magnetic and electric field	6

NOVEMBER	DC.AC*domestic electric circuit.	* explanation of DC,AC.advantage of AC over DC. * schematic diagram of common domestic circuit *Discussion on students observation. *Asking questions.	*Various sources for direct current and alternating current. *Safety measures used in electric circuits and appliances. *Precautions to avoid the overloading	4
DECEMBER	REVISION FOR PREBOARD EXAMS			
JANUARY & FEBRUARY	REVISION FOR BOARD EXAMS			

SUB- CHEMISTRY

Month	Topic	Methodology /activity	Learning outcome	Working days
March and April	Chapter -1 chemical reactions and equations. •chemical changes. •features of chemical changes. .•Equation for chemical reaction. • writing word equations. •writing symbol equations . •Balancing of chemical equations •How to make chemical equation more informative • .Information conveyed by a balanced chemical equation . •Information not conveyed by chemical equations.	•Lecture and demonstration method •PPT •use of whiteboard for writing chemical equations. •Interactive application •explanation method	Students will be able to •understand what is meant by a chemical reaction •construct balanced chemical equations to represent reactions. •construct chemical equation •students are able to write word equation & equation •illustrate information conveyed by chemical equation.	6

June	Chapter -1st chemical reactions and equations. •Types of chemical reactions •combination reaction •Decomposition reaction •Displacement reaction • Double displacement reactions. .•oxidation reduction reaction •Redox reaction •combustion reaction ● Exothermic reaction ● Endothermic reaction	•Presentation method • lecture and demonstration method. •Using whiteboard to explain different reactions •Discussion forum activity. ● Performing and observing the following reactions and classify them into combination reaction ,decomposition reaction, displacement reaction ,double displacement reaction. 1) Action of heat on ferrous sulphate crystal. 2) Reaction between sodium sulphate and barium chloride solution 3)Iron nails kept in copper sulphate solution.	•Students will be able to identify different types of reaction. •How is rust formed on the surface of iron objects. •identify the substance oxidized and the substance reduced in the reaction.	5
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July	Revision for PT-1 Chapter- 2 Acids bases and salt •Definition of acids and bases. •Properties of acids . •Strong and weak acids . •uses of mineral acids in industry .•properties of bases . •strong and weak bases . •Dilution of acid and base solution •How do acids and bases mutually react. •Practical application of neutralization.	Lecture and demonstration method. •showing citrus fruit to explain the presence of acid. •showing vinegar to explain acid. •showing and tasting baking soda to explain base. PPT ● Studying the properties of acids and bases (HCl and NaOH)on the basis of their reaction with :a)litmus solution b)zinc metal c)solid sodium carbonate solution.	Students will be able to- •Understand the strength of an acid (or base) as determined by the percent of ionization in solution. •Identify strong and weak acids and bases. •Define acids and and bases . •Investigate the reaction of non -oxidizing acids with metals ,carbonates and hydrogen carbonates and bases . •Discuss the strength of acids and alkalis on the basis of their completeness of ionization. •Illustrate dilution of acids.	8
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August	Chapter,- 2 acids bases and salt. •The pH scale •universal indicator paper for PHvalue •Importance of PH in daily life •Definition of salt •Classification of salt. •classification based on chemical formula. •classification based on PH value •.classification based on family of salt •preparation of salt •chemicals from common salt washing soda ,caustic soda baking soda ,bleaching powder, plaster of paris ,hydrated salt	Lecture and demonstration method •PPT •showing common salt •Presentation method • Finding the pH of the following samples by using pH paper /universal indicator. 1)Dilute hydrochloric acid 2) Dilute NaOH solution. 3) lemon juice 4)Water 5) Dilute Hydrogen carbonate solution	Students will be able to • Explain importance of PH in daily life. •Classify different kind of salt. •Identify formula of salt. • identify the acid and the base present in the salt. •write chemical equations for the preparation of salt. •Detect the water of crystallization present in salt	8
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September	Revision for periodic-2 Chapter -3 metals and non-metals. Metals ,physical properties of metals ,non-metals ,physical properties of non-metals	Pen and paper method, discussion method Lecture and demonstration method •presentation method •PPT	Students will be able to •Demonstrate metals and non-metals •Compare properties of both metals and non-metals. •Identify metals and non-metals from the given samples	3
October	Chapter -3 metals and non-metals. Chemical properties of metals ,chemical properties of non-metals, How do metals react with non-metals? ,properties of ionic compound ,occurrence of metals, extraction of metals, refining of metals ,corrosion	•showing some metals like iron silver ,copper to explain the properties of metals. •activity to show rusting process on iron objects	• Tabulate the reactivity series of metals. •Correlate valency and type of bond formed. • Draw schematic diagrams for ionic compounds. •Demonstrate properties of ionic compounds. •Compile the metals and soluble salts from earth's crust and sea water •Compare minerals and ores. • Identify various steps in the extraction of metals.	6

			•Choose different separating techniques for the ores. •Apply conceptual and experimental knowledge of metals in daily life. • Demonstrate the activity performed to show corrosion. • Identify the factors responsible for corrosion. •various methods to prevent corrosion.	
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November	Chapter-4 Carbon and it's Compounds. •Bonding in carbon -covalent bond • properties of covalent compounds •allotropic form of carbon •carbon an essential •constituents of all organic compound •versatile nature of carbon . •catenation •organic compounds •closed chain compounds •functional groups •Homologous series.	lecture and discussion forum activity. PPT Activities related to the topics. Discussion forum Interaction application. ● To study the following properties of the acetic acid 1)Odour 2) solubility in water 3) Effect on litmus 4) reaction with sodium hydrogen carbonate ● To study the comparative cleansing capacity of a sample of soap in soft and hard water	Students will be able to •define the term tetravalence and catenation. •list the physical properties of carbon. •state why is carbon a special element. •define the allotropy •list main allotropes of carbon and distinguish between the properties of allotropes •predict what happens when carbon dioxide with common elements •identify different functional group. lecture and discussion forum activity Mini lecture Interaction application PPT students will be able to •write IUPAC names of different organic. compounds	8
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JULY	Ch 5 - Life processes	Experimental method	The students will also learn about the various phenomenon occurring in their body like acidity, hiccups, tooth ache etc.	10
AUGUST	Ch 6 - Control and Coordination	Diagram draw and demonstration method	The students learn about various types of movement in plants.	9
SEPTEMBER	Ch 6 - Control and Coordination	Diagram draw and demonstration method	The students will learn how chemical coordination takes place in plants and animals. The students will also learn how do brain regulates different parts of the body.	9
OCTOBER	Ch7 - How do organisms reproduce?	Diagram draw, demonstration method	The students will learn how a new life originated from existing ones. The students will also gain knowledge about certain techniques like tissue culture, grafting, layering etc.	10
NOVEMBER	Ch 8 - Heredity	Problem solving method, inquiry-based learning method.	The students will learn how characters are inherited from parents to their offspring. The students will also learn about the concept of variations.	8
NOVEMBER	Ch 13 - Our environment	Question answer method, flow chart teaching	The students will learn how organisms are interdependent on each other. The student also learnt how the ozone layer is being depleted.	4
DECEMBER	REVISION AND PRE BOARD EXAM			
JANUARY	REVISION AND PRE BOARD EXAM			

SUB- SOCIAL STUDIES

Month	Topic	Method/Activity	Learning Outcome	Working Days
April	Political Science-Power Sharing	Through flowchart, map of Belgium & Sri Lanka, explanation through relevant examples. Taking feedback of students.	Will learn the meaning of power sharing'. power sharing among legislature, executive and judiciary, need for power sharing, various forms of power sharing.	4
	Economics -Development	Explanation through examples, case studies, thought provoking questions , activities: like debate. Take feedback of students	Students will understand that people have different perspectives of development	3
	Geography – Resource and Development	Activity , for classification of resources ,flowchart, activity to find distinction among different types of resources ,images of different resources, through thought provoking questions will conclude how resources are very useful.	Students will easily identify different resources, classify them, can segregate and find resemblance. will know the imp of resources and sustainability of resources.	7
	Economics- Sectors of Economy	Elaborating the ideas, also students can be familiarized with concepts like Gross domestic product, Employment etc Taking feedback through questions	Students will understand the Sectoral classification and will learn to relate them to their daily life.	5

	Political science –Federalism	Through questions based on past experience, explanation through examples, through tables .through questions	Vertical division of power sharing is the major form of power sharing in modern times,	7
June	Political science- Gender religion , caste	Will look 3 kinds of social differences based on gender , caste and religion	Students will understand whether the different expressions are healthy or otherwise in a democracy	10
	Economics – Money and Credit	Explanation of how different forms of money were used at different times ,how modern forms of money linked to banking system	Students will learn how new forms of money are spreading with computerization	10
July	Geography- Forest and wildlife	Explanation through images of different animals. Through group discussion. Students will learn measures of conservation of forest and wild life.	Students will understand the importance of the conservation of wildlife and forest	7
	History – Nationalism in Europe	Questions from General to specific ; based on How did the modern nation come into being .How did people begin to see themselves as one nation.	Students will understand age of revolutions, Making of Germany and Italy ,Nationalism and Imperialism.	12
August	History – Nationalism in India	Explanation based on student past experience, for facts images from movie Gandhi, small video from movie Gandhi.	Will learn what is Satyagraha. Why Non- cooperation? Different strands , how different communities saw civil disobedience movement, sense of Collective belongingness.	12

	Geography-Water Resource	Explanation through newspaper cuttings to show the causes of water scarcity. Will focus on the need to conserve water.	Students will learn the different techniques adopted in India to harvest water.	7
	Geography-Agriculture	Explanation through flowchart, the types of farming, map pointing, images of different types of crops, non food crops, solving the puzzle	Students will know the types of farming, where practiced, cropping patterns, reforms introduced by the Government.	10
September	Geography-Minerals and Energy Resources	Students will have various minerals and also energy resources through images, pie charts, tables and will understand the mineral belts and their location.	Student will understand the development of resources is the index of any country's economic development.	10
	History- Print Culture	Will explain to make realize how print developed earlier and modern period is unimaginable without print.	Will learn about first printed books, how print comes to Europe, India and the world of print	12
October				
	Political science-political parties	Elaborate explanation of the nature and working of different political parties, activity on different symbols of political parties, activities on slogans of different political parties.	Will learn the need of political parties, how many political parties needed, national parties and State parties	10
	Geography-Manufacturing Industries	Stimulating awareness by asking questions already know, through debate, will explain how it contributes to national economy.	Will learn meaning and classification of industries, also will learn how to make sustainable development and to reduce pollution	10

		thought stimulating questions ; what factors may be required for the location of any industry		
	Economics – Globalization and the Indian Economy	Thought stimulating questions, activity on different brands, different logos of goods, different MNC.	Will understand Globalization ,integration of markets, Liberalization, Impact of Globalization on India	7
	November			
	Geography- Lifelines of Indian Economy	Flow chart on means of transport, map pointing, images of border roads, questions on previous learning, feedback questions	Will learn about roadways, waterways , air ways, location of sea ports and airports	2
	History – Making of the Global world	Explanation will be held by stimulating visualization to know how food and disease travelled across the globe	Students will understand the process of the making of the Global world.	7
	Political Science- Outcomes of Democracy	By asking reasonable questions ,proceed to see actual outcomes of democracy through feedback questions	Will understand accountable, responsive, legitimate government	7
Decem ber	REVISION			
January	REVISION			

SUB- HINDI

माह	पाठसंख्याएवंपाठकाना म	विधा	भाषाईकौशलविधियां	सीखनेकेपरिणामएवंजीवनमू ल्य	कार्यदिवस

मार्च/ अप्रैल	पाठ 1 नेताजी का चश्मा, पाठ 2 बाल गोबिन भगत, पाठ 1 पद (सूरदास) कृतिका पाठ 1 माता का आंचल, अनुच्छेद व पत्र-लेखन।	कहानी रेखाचित्र काव्य उपन्यास अंश	व्याख्यान कौशल, सरलता से कठिनता की ओर, शुद्ध उच्चारण के साथ सस्वर वाचन, शब्दार्थ बताना, अभ्यास कार्य कराना, भाषा की शुद्धता का ज्ञान कराना, गद्यांश व काव्यांश से मध्यांतर मौखिक प्रश्न पूछना, अनुच्छेद लेखन व पत्र, पत्र के प्रकार के चरणबद्ध तरीके समझाना। कृतिका के पाठ का आदर्श वाचन कराना, मध्यांतर प्रश्न पूछना, तुकबंदियां समझाना।	देशभक्तों को सम्मान करना एवं देशभक्तिकी भावना जागृत करना, मानवता लोकसंस्कृति और सामूहिक चेतना के प्रतीक समझना, गोपियों का कृष्ण के प्रति प्रेम और विरह वेदना समझना, उद्धव का ज्ञान योग समझना, कल्पना शक्ति व सृजन क्षमता का विकास करना। ग्रामीण अंचल की सहजता, माता-पिता के स्नेह, बच्चों के खेल, लोकगीत आदि को समझना	20
जून	व्याकरण-वाक्य भेद रचना के आधार पर, पद परिचय संदेश लेखन, स्ववृत्त लेखन, ई-मेल लेखन।		वाक्य भेद समझाना, पद परिचय को क्रमबद्ध तरीके से समझाना।	पद के व्याकरणिक परिचय को क्रम से समझाना, लेखन कौशल का रचनात्मकता के साथ विकास, वाक्य रचना को समझाना।	15
जुलाई	गद्य पाठ 3 लखनवी अंदाज, काव्य पाठ 2 रामलक्ष्मण परशुराम संवाद। गद्य पाठ 5 एक कहानी यह भी	व्यंग्य रचना, काव्य	पाठ के अलग-अलग अनुच्छेदों को शुद्ध उच्चारण के साथ आदर्श वाचन कराना, कठिन शब्दों के अर्थ, अभ्यास कार्य लिखवाना, मध्यांतर मौखिक प्रश्न पूछना। कविता का शुद्ध उच्चारण के साथ सस्वर वाचन कराना, क	कल्पना शक्तिका विकास, भाषिक कुशलता एवं चिंतन क्षमता का विकास, रामचरितमानस से सीता स्वयंवर प्रसंग समझना, रामसेविनम्रता व धैर्य का गुण समझना, छंद, लय, तुक व अलंकार समझना, छा	24

		आत्मकथ्य काव्य “आवधिकपरीक्षाप्रथम”	ठिनशब्दोंकेअर्थ,अभ्यासकार्यकराना,मध्यांतरप्रश्नपूछकरछात्रोंकामूल्यांकनकरना। पाठकेअलग-अलगअनुच्छेदोंकाशुद्धउच्चारणकेसाथआदर्शवाचन,अभ्यासकार्य,कठिनशब्दोंकेअर्थ	त्रोंकेभावजगतकाविस्तारकरना। हिंदीसाहित्यकीविधाआत्मकथ्यशैलीकाज्ञान,किशोरजीवनपरपड़नेवालेभावोंकोसमझना,आजादीकेलिएखोजवसंगठनक्षमताकेतरीकेसमझना।	
अगस्त	काव्यपाठ 4 आत्मकथ्य, कृतिका पाठ 3 साना साना हाथ जोड़ि। गद्यपाठ 7 नौबतखानेमें इबादत व्याकरण-वाच्य,उसकेभेद, वाच्यपरिवर्तन लेखनकौशल-विज्ञापन, संदेशलेखन।	यात्रावर्णन व्यक्तिचित्र	,काव्यकासस्वरवाचन,कठिनशब्दोंकेअर्थ,रचनाऔरअभिव्यक्ति,गद्यवकाव्यकेमध्यांतरप्रश्नपूछना,छात्रोंकामूल्यांकनकरना,यात्रावर्णनकोसरलतासेकठिनताकीओरलेजातेहुएसमझाना,हिमालयकेपल-पलबदलतेसौंदर्य,दुर्गमरास्तोंकानिर्माण,जलवायु,संस्कृतिकोसमझातेहुएमध्यांतरप्रश्नपूछना।विज्ञापनऔरसंदेशकेचरणबद्धतरीकोंकोक्रमसेसमझाना। पाठकेअलग-अलगअनुच्छेदोंकाशुद्धउच्चारणकेसाथआदर्शवाचन,अभ्यासकार्य,कठिनशब्दोंकेअर्थ	नश्वरसंसारमेंआत्मकथालिखनाहास्यास्पदहैइसेसमझनाआत्मकथाकेअंतर्गतअपनेजीवनकेसुखभरे,दुखभरेपलोंकोलिखनाअनुचितहैइसेसमझना।कल्पनाशक्ति,तार्किकक्षमताकाविकासकरना। भारतरत्नजैसेसर्वोच्चसम्मानसेसम्मानितमहानव्यक्तित्वकीसरलताऔरसादगीकोसमझना,कल्पनाशक्तिभाषिककुशलतावचिंतनक्षमताकाविकास,सांकेतिकभाषासमझनेकीशक्तिकाविकास।	20

सितंबर	“आवधिक परीक्षा द्वितीय”				
पुनरावृत्ति	गद्यपाठ 1 नेताजीकाचश्मापाठ 2 बालगोबिनभगतपाठ 3 लखनवीअंदाज़पाठ 5एककहानीयहभी, गद्यपाठ7नौबतखानेमें इबादत काव्यपाठ1 सूरकेपद,2रामलक्ष्मणप रशुरामसंवाद,4 आत्मकथ्य।कृतिकापाठ 1 माताकाआंचल,पाठ 3 सानासानाहाथजोड़ि,व्या करण-वाक्यभेद-रचनाके आधारपर,पदपरिचय,वा च्यएवंवाच्यपरिवर्तन। लेखन कौशल- पत्र-लेखन, अनुच्छेद,स्ववृत्त, ईमेल लेखन, विज्ञापन,संदेशलेखन		सभीपाठोंसेलिखितएवंमौखि कप्रश्नपूछकरलिखवाकरअ भ्यासकार्यकरवाकरपुनरावृ त्तिकरवाईजाएगी। व्याकरणसेअभ्यासकार्यकर वाकरलेखनकौशलसेलिखित अभ्यासकरवायाजाएगा।		12
अक्टूबर	,काव्यपाठ5 उत्साह,अटनहींरहीहै। गद्यपाठ 8 संस्कृति काव्यपाठ 6 दंतुरित मुस्कान, फसल	काव्य निबंध	।काव्यकासस्वरवाचन,कठि नशब्दोंकेअर्थ,गद्यवकाव्यसे मध्यांतरप्रश्नपूछकरछात्रोंका मूल्यांकनकरना।वाक्यभेदउ दाहरणएवंरचनांतरण,संदेश	प्रत्यास्मरण कार्य करना।	15

	व्याकरण-वाक्यभेद-रचनाकेआधारपर,लेखनकौशल-संदेशलेखन		लेखनकोचरणबद्धतरीकोंसेसमझाना। पाठकेअलग-अलगअनुच्छेदोंकाशुद्धउच्चारणकेसाथआदर्शवाचनकराना,कठिनशब्दोंकेअर्थलिखवाना,अभ्यासकार्यकराना,मध्यांतरप्रश्नपूछकरछात्रोंकामूल्यांकनकरना। काव्यकाशुद्धउच्चारणकरतेहुएसस्वरवाचनकरवाना,कठिनशब्दोंकेअर्थलिखवाना,मध्यांतरप्रश्नपूछकरछात्रोंकामूल्यांकनकरना।		
नवंबर	पाठ9 संगतकार। कृति का पाठ 5 में क्यों लिखता हूं। व्याकरणअलंकार	काव्य प्रेरणास्पदलेख	लिखनेकीप्रेरणा,भीतरीव्यवस्थाक्याहै,अनुभूतिप्रत्यक्षहोनाक्याहै,लिखनेकीप्रेरणाकिसतरहउत्पन्नहोतीहै,इसेसमझाना। अलंकार के भिन्न-भिन्नभेदोंकीपरिभाषाऔरउदाहरणकोक्रमवारसमझाना।	हिंदीसाहित्यकीविधानिबंधकेमाध्यमसेसभ्यताऔरसंस्कृतिकोसमझना,अनेकउदाहरणोंकेमाध्यमसेसभ्यताऔरसंस्कृतिकीपरिभाषाकोसमझना,सभ्यताऔरसंस्कृतिकेपरिणामोंकाज्ञानहोना,सभ्यताऔरसंस्कृतिकेमानवकल्याणसेसंबंधकोसमझना छोटे बच्चे की मनोहारी मुस्कानकेप्रभावकोसमझनासुंदरतावकोमलताकेभावकोसमझना मुस्कानमेंछिपेजीवनसंदेशकोसमझना कृषिसंस्कृतिकोसमझना।मुख्यगायककेस्वरमेंस्वरमि	16

				लाकरस्वरकोगतिप्रदानकरनेवा लेसंगतकारकेमहत्वकोसमझना ,जीवनकेअनेकमोड़परसंगतकार कीभूमिकाकोसमझना।रचनात्म कतावकल्पनाशक्तिकाविकास लेखनक्षमताकाविकास	
“आवधिक परीक्षा तृतीय”					
दिसम्बर	प्री बोर्ड परीक्षा				
जनवरी	संपूर्ण पाठ्यक्रम		संपूर्ण पाठ्यक्रम की पुनरावृत्ति लिखित एवं मौखिक प्रश्न करातेहुएकरवाईजाएगी।	।	18
फरवरी	संपूर्णपाठ्यक्रम		संपूर्णपाठ्यक्रमकीपुनरावृत्ति लिखितएवंमौखिकप्रश्नकर वातेहुएकरवाईजाएगी।		10

SUB- INFORMATION TECHNOLOGY (SUB CODE : 402)

MONTH	TOPIC	SUB TOPICS	METHODOLOGY/ ACTIVITIES	LEARNING OUTCOME	Working Days

[illegible]

		Introduction Databases	Analyze database requirement for your school; visit different departments such as library, student admission center, to gather requirements. Document the business requirement. * Create a database for a stationery shop.(fields for items, price, colour, vendor, etc.)	Make a plan in team for setting up a business. perform operations on table *Retrieve data using query *Create forms and reports using wizard	
	Part B Unit II Electronic Spreadsheet Advanced	*Analyzing data in a Spreadsheet *Linking Data and spreadsheets *Sharing and reviewing a spreadsheet *Using Macros in spreadsheet	*practical problems given to solve. *Create a set of worksheets for storing records of marks of different classes and compare all these on a separate worksheet *Share worksheet data with other users.	Students will learn about *analyze data using scenario and goal seek *link data and spreadsheets *share and review a spreadsheet *create and use macros in spreadsheet	10
September	Part A Unit IV Entrepreneurial Skills	*Entrepreneur and entrepreneurship	* Field Work: Let's be an Entrepreneur. * Interview an entrepreneur	Students will learn about * students will find problems on their school campus that can be turned into business opportunities. * The role of entrepreneurs and how they help in the growth of society. * students will observe entrepreneurs at work, and speak to them and their employees about their work. * The misconceptions around entrepreneurship and the truth behind them.	

October	Part A Unit V Green Skills	*Sustainable Development Part B Session 1 Health , Safety, and security at workplace Session 2 Workplace Quality Measures Session 3 Accidents , Emergencies and Preventions	* Discussion on How to Prevent Wastage. * Group Discussion Part B Practice Basic Safety Rules: Implement fire safety measures, prevent falls and slips, ensure electrical safety, and apply first aid procedures to protect workers and prevent accidents.	Students will learn about * Way in which wasting of water and food can be stopped or minimized. * Student will describe one way in which they can work to conserve and protect the environment. Part B Understand workplace health, safety, and security policies, identify various hazards, and learn how to manage risks and maintain a safe working environment.	10
	Unit – III (Part-B) Database Management System	* Performing Operations on Tables. *Retrieving data using queries. * working with forms and reports.	Analyze database requirement for your school; visit different departments such as library, student admission center, to gather requirements. Document the business requirement. * Create a database for a stationery shop.(fields for items, price, colour, vendor, etc.)	*perform operations on table *Retrieve data using query *Create forms and reports using wizard	5
November	Part B Unit III	Session-2 Creating Database and Tables	* Analyze database requirement for your school; visit different	Students will learn about	10

	Data Management System	Session-3 Creating/Editing Tables in Design View Session-4 Performing Operations on Tables Session-5 Queries in Base	departments such as library, student admission center, to gather requirements. Document the business requirement. * Create a database for a stationery shop.(fields for items, price, colour, vendor, etc.) * Create a database to store your academic records. * Use the select query statement to query and sort *Create a form and Report for the academic database created in the above activity.	*Appreciate the concept of database management System *create and edit tables using wizard and SQL Commands *perform operations on table *Retrieve data using query *Create forms and reports using wizard	
	Unit - IV (Part-Maintain Healthy, Safe, and Secure Working Environment)	Session-1 Health , Safety and security at workplace Session-2 Workplace Quality Measures Session-3 Accidents, Emergencies and Prevention	• Fire Hazards • Health Hazards • Potential Sources of Hazards in an Organisation • Hazards Using Computers • Handling Office Equipment • Handling Objects • Stress at Work • Working Environment • Hazard Control • Safety Guidelines Checklist	Understand workplace health, safety, and security policies, identify various hazards, and learn how to manage risks and maintain a safe working environment.	5

SANSKRIT

मासः	प्रसंगः	कार्यप्रणाली/गतिविधिः	अधिगमपरिणामः	कार्यदिवसः
मार्च अप्रैल	प्रथमःपाठः सत्यं शिवं सुन्दरं संस्कृतम् ।	लय माध्यमेन सत्यं शिवं सुन्दरं संस्कृतम् पाठस्य वाचनम् ,अनुवाचनम्, अवबोधनम् अभ्यासं च।	- संस्कृत भाषायाः महत्वं जास्यन्ति । - विश्वबंधुत्वस्य भावनायाः विकासः भविष्यति।	
	- द्वितीयः पाठः सुखस्य मूलं धर्मः, धर्मस्य मूलं अर्थः। - व्याकरणम् उपसर्गः, संख्या च ।	- पाठस्य वाचनम् अनुवाचनम्, अवबोधनं च। - क्रीडा- अभ्यास-माध्यमेन संख्यायाः अवबोधनम् ।	- भारतीयधर्मशास्त्रानां विषये ज्ञानम् । - उपसर्गसंख्याप्रयोगेन शब्दरचनाभ्यासः ।	
जून	- तृतीयः पाठः आत्मवत्सर्वभूतेषु यः पश्यति सः पण्डितः। - व्याकरणम् - पत्रं, चित्रवर्णनं च ।	- पाठस्य वाचनम् अनुवाचनम्, अवबोधनम् अभ्यासं च। - क्रीडा-अभ्यास-माध्यमेन पत्रस्य चित्रवर्णनस्य च अवबोधनम् ।	- छात्राः सर्वेषु जीवेषु एकाम् एव चेतनां (आत्मानं) दृष्ट्वा भेदभावात् मुक्ताः भविष्यन्ति। - छात्राः माध्यमेन संस्कृतभाषायां स्वविचारान् प्रदर्शयन्ति ।	
जुलाई	- षष्ठःपाठः मनः पूतं समाचरेत्। - सप्तमः पाठः उपायं चिन्तयेत् प्राज्ञस्तथापायं च चिन्तयेत्। - व्याकरणम् - धातुरुपं, शब्दरूपं च।	श्लोक वाचन अभ्यासः । मननात् त्रायते इति मंत्रः अर्थः। सौहार्दपूर्ण जीवने महत्वम्। प्रकृतिसुरक्षा, वन्य जीव प्रति स्नेहः, प्रकृति सौंदर्यीकरण कृते कार्यः।	वाचन कौशल अभ्यासः । उद्धमस्य महत्वम् । श्लोक अन्वयः अभ्यासः । नाट्य कला अभ्यासः प्रकृति दर्शनम् ।	
अगस्त	- षष्ठःपाठः मनः पूतं समाचरेत्। - सप्तमः पाठः उपायं चिन्तयेत् प्राज्ञस्तथापायं च चिन्तयेत्।	न्यायो भवति प्रमाणाधीनः। सर्व सत्यं ज्ञात्वा साक्ष्यं प्रतुतवान् । असंभव कार्याणि अपि सरलतया कुर्वन्ति। सदाचारः, विद्याधनम्, मधुरावाकः, विद्वासः जीवने महत्वम् ।	साहित्यकार बंकिमचन्द्र चटर्जी जीवन परिचयः । सत्यखसत निर्णय हेतु साक्ष्य महत्वपूर्णः । न्यायालयः निर्णयः सर्वमान्य।	
सितम्बर	परीक्षा, PT-2 पुनरावृत्ति ।	परीक्षा ।	परीक्षा कार्यः ।	

अक्टूबर	- अष्टमः पाठः अन्नाद् आनन्दं प्रति। - नवमः पाठः वर्णोच्चारण-शिक्षा-2	परोपकारःश्रेष्ठ धर्मः । ऐतिहासिक पात्र परिचयः। कवि परिचयः। प्रशंसा निंदा माध्मेन जीवने संदेशः।	सस्वर वाचन कौशल । पर्यावरण संतुलन कृते प्रयासः । आपदा काले सहयोग कृते तत्परः।	
नवम्बर	- दशमः पाठः णमो अरिहन्ताणम्। - एकादशः पाठः वर्णोच्चारण-शिक्षा-2			
दिसम्बर	पुनरावृत्ति/ प्री-बोर्ड परीक्षा ।।	व्याकरणम् कौशलः अभ्यासः ।	व्याकरणम्- कौशलः अभ्यासः	
जनवरी	पुनरावृत्ति, परीक्षा,			
फरवरी	पुनरावृत्ति, परीक्षा,			