



Annual Curriculum (2023-24)
GRADE - IX
SUBJECT- MATHEMATICS

BOOK PRESCRIBED:

TEXT BOOK : MATHEMATICS (NCERT)
PRACTICE BOOK : NEW MATHEMATICS (S. CHAND)
LAB MANUAL : DR. RAM MOHAN

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
April	Ch-1 Number System	Students will be able 1.To recall rational and irrational numbers. 2. To know the concepts of real numbers and decimal expressions. 3.To represent real numbers on number line. 3. To state and apply the laws of exponents for real numbers.	Art integrated activity using colored sheets, colored pens, scissors, ruler, glue etc.	Activity Based Teaching Working model on Types of Number YouTube link: https://youtu.be/PpCMUgEiAqQ	Students will be able to recall rational and irrational numbers. They will be able to know the concepts of real numbers and decimal expressions. and represent real numbers on number line. They will be able to state and apply the laws of exponents for real numbers.

	Ch-2 Polynomials Weekly Test 1	Students will be able 1.To recall types of polynomials. 2. To write and apply remainder theorem and factor theorem. 3. To write and apply algebraic identities to solve the problems.	Art integrated activity using colored sheets, colored pens, scissors, ruler, glue etc.	Activity Based Teaching Working model on Types of Polynomials YouTube link: https://youtu.be/V9YZp0GPedU	Students will be able to recall types of polynomials. They will be able to write and apply remainder theorem and factor theorem. They will be able to write and apply algebraic identities to solve the problems.
May	Ch-3 Coordinate Geometry	Students will be able 1.To understand cartesian system. 2. To plot a point in the plane if its coordinates are given.	Art integrated activity using bar graph paper, colored pencils, ruler, glue etc.	Activity Based Teaching Art Integrated Activity YouTube link: https://youtu.be/3OvABEbaxGY	Students will be able To understand cartesian system. They will be able to plot a point in the plane if its coordinates are given.
July	Ch-4 Linear Equations in two variables Weekly Test 2	Students will be able 1.To solve a linear equation in two variables. 2. To plot a graph of a linear equation in two variables.	Art integrated activity using bar graph paper, colored pencils, ruler, glue etc.	Activity Based Teaching Spider Webs Art Integrated Activity YouTube link: https://youtu.be/HfCIPjZ3bEg	Students will be able to solve a linear equation in two variables and plot a graph.
	Ch-5 Introduction to Euclid's Geometry	Students will be able 1.To define a point, line and a plane. 2. To state axioms and theorems.	Art integrated activity using colored A 4 pastel sheets, colored pens, ruler, glue etc	Activity Based Teaching Spider Webs Art Integrated Activity YouTube link: https://youtu.be/jBRtnnuBaF8	Students will be able to define a point, line and a plane. They will be able to state axioms and theorems.
	Ch-6 Lines and Angles	Students will be able 1.To recall all types of angles and conditions for parallel lines and a transversal. 3. To state theorems related to lines parallel to	Art integrated activity using colored A 4 pastel sheets, colored pens, ruler, glue etc.	Activity Based Teaching Lines and Angles Activity YouTube link: https://youtu.be/5te2nLKQbf0	Students will be able to recall all types of angles and conditions for parallel lines and a transversal. They will be able to state theorems related to lines parallel to the same line.

		the same line.			
August	Ch-7 Triangles	Students will be able 1.To recall congruence rules of triangles and state the theorems. 2. To solve the problems related to theorems. 3. To understand inequalities in a triangle.	Art integrated activity using colored A 4 pastel sheets, colored pens, ruler, glue etc.	Activity Based Teaching Warli Art Activity using congruent triangles YouTube link: https://youtu.be/31LfejUFRU	Students will be able to recall congruence rules of triangles and state the theorems. They will be to solve the problems related to theorems and understand inequalities in a triangle.
	Ch-8 Quadrilateral	Students will be able 1.To revise types and properties of quadrilaterals. 2. To state theorems related to all properties. 3. To solve the problems using theorems.	Art integrated activity using colored A 4 pastel sheets, colored pens, ruler, glue etc.	Activity Based Teaching Types of Quadrilaterals Activity YouTube link: https://youtu.be/jkIF93hazog	Students will be able to revise types and properties of quadrilaterals. They will be able to state theorems related to all properties and solve the problems using theorems.
September		Revision for Term-1 Exam			
October	Ch-9 Circle	Students will be able 1.To state theorems related to circles. 2. To apply the theorems and solve the problems.	Art integrated activity using colored A 4 pastel sheets, colored pens, ruler, glue etc.	Activity Based Teaching Angles in same segment of a circle are equal through an activity YouTube link: https://youtu.be/X00KSHg-4fA	Students will be able to state theorems related to circles. They will be able to apply the theorems and solve the problems
	Ch-10 Heron's Formula	Students will be able 1.To state Heron's Formula. 2. To find the area of triangles using Heron's Formula.	Art integrated activity using colored A 4 pastel sheets, colored pens, ruler, glue etc.	Activity Based Teaching Heron's Formula Working model YouTube link: https://youtu.be/hrcZt4X2ENA	Students will be able to state Heron's Formula and find the area of triangles using Heron's Formula.

November	Ch-11 Surface Area and Volume Weekly Test 3	Students will be able 1.To understand the formulas of surface area and volume in 3 D shapes. 2. To apply the formulas and solve the problems.	Art integrated activity using colored A 4 pastel sheets, colored pens, ruler, glue etc.	Activity Based Teaching Volume of Cone Activity YouTube link: https://youtu.be/jaNbQ99ArxA	Students will be able to understand the formulas of surface area and volume in 3 D shapes. 2. To apply the formulas and solve the problems.
	Ch-12 Statistics	Students will be able 1.To represent the data using tally marks. 2. To represent data on bar graph, histogram, frequency polygon. To find mean, median and mode of the given data.	Art integrated activity using colored A 4 pastel sheets, colored pens, ruler, glue etc.	Working Model on mean, median and mode YouTube link: https://youtu.be/-nQhUqIKXfg	Students will be able to represent the data using tally marks. They will be able to represent data on bar graph, histogram, frequency polygon and find mean, median and mode of the given data.
December	Weekly Test 4				
January	Revision for Annual Exam				
February	Annual Exam				

Syllabus:

Weekly Test 1- Ch- 1 and 2

Weekly Test 2- Ch-3 and 4

Half Yearly Exam - Ch- 1,2,3,4,5,6,7,8

Weekly Test 3- Ch -9 and 10

Weekly Test 4- Ch-11 and 12

Annual Exam -Ch- 1,2,3,4,5,6,7,8,9,10,11,12



Annual Curriculum (2023-24)

GRADE - IX

SUBJECT- ENGLISH

Book prescribed : BEEHIVES (CBSE NCERT)
 : MOMENTS (CBSE NCERT)
 : WRETIN MARTIN (GRAMMAR)

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
April	Beehive ch-1 The Fun They Had	To enable the students to read, write, speak understand English correctly. -To enable the students to understand the difficult words and phrases in the lesson. -To acquaint the students with a scientific story. -To enable the students about Robots and Robotic teachers		Brainstorming , Collaborative, critical thinking Smart board lecture and discussion method	To enable the students to read, write, speak understand English correctly. -To enable the students to understand the difficult words and phrases in the lesson. -To acquaint the students with a scientific story. -To enable the students about Robots and Robotic teachers
	Beehive Poem- The Road not Taken	-To understand that the decisions taken by people shape their lives. -Describe the dilemma of the poet and the	Find the rhetorical devices used in poem	Discussion method, lecture method, critical thinking, Smart board lecture	-To understand that the decisions taken by people shape their lives. -Describe the dilemma of the poet and the

		<p>poetic devices used in the poem.</p> <ul style="list-style-type: none"> -Enhance their creativity and imagination -To appreciate beauty and nature and surroundings. 			<p>poetic devices used in the poem.</p> <ul style="list-style-type: none"> -Enhance their creativity and imagination -To appreciate beauty and nature and surroundings.
	Beehive poem: Wind	<ul style="list-style-type: none"> -Students will be able to read the poem confidently -identify the central idea of the poem - identify the poetic device and analyze how physical and mental strength enables one to face all challenges. -To analyze the power of the wind as a preserver and a destroyer. 		<p>Discussion method, lecture method, critical thinking, Smart board lecture</p>	<ul style="list-style-type: none"> -Students will be able to read the poem confidently -identify the central idea of the poem - identify the poetic device and analyze how physical and mental strength enables one to face all challenges. -To analyze the power of the wind as a preserver and a destroyer.
	Moments: Ch-1 The lost Child	<ul style="list-style-type: none"> -Students will be able to read, recall and narrate the story -expand their vocabulary, analyze the theme of the close bond that the children share with their parents. -To develop production skills (fluency and accuracy in speaking and writing answers). - To be able to answer 		<p>Smart board lecture and discussion method Brainstorming, Collaborative, critical thinking</p>	<ul style="list-style-type: none"> -Students will be able to read, recall and narrate the story -expand their vocabulary, analyze the theme of the close bond that the children share with their parents. -To develop production skills (fluency and accuracy in speaking and writing answers). - To be able to answer comprehensive questions based on the extract

		comprehensive questions based on the extract			
	Grammar: Tenses (present)	-differentiate present from past and future -to understand the rules for writing sentences into different kinds of present tense -to compose paragraphs according to given tense	Editing and errors exercise	Power Point presentation Grammar book exercises	-differentiate present from past and future -to understand the rules for writing sentences into different kinds of present tense -to compose paragraphs according to given tense
	Grammar: Tenses (past)	-To define Past Tense. - To identify Past Tense in a sentence. -To state the structure and form of Past Tense. - Framing sentences using Past Tense.	Write a telephonic conversation with your friend using past tense	Power Point presentation Grammar book exercises	-Identifies Past Tense correctly -Uses Past Tense correctly while writing. -Writes paragraphs using Past Tense correctly
	Writing : letter writing (Letter to Editor)	By the end of the topic students will be able -to explain the purpose of writing formal letter -list the components of a letter and its format -Express their views in the desired manner on social issue	Write a letter to the editor of national daily expressing your concern towards overuse of mobile phones and electronic gadgets among youth.	Familiarize the students with different Formats and Sample	By the end of the topic students will be able -to explain the purpose of writing formal letter -list the components of a letter and its format. -Express their views in the desired manner on social issue
May	Beehive: Ch-2 The sound of music	-to compare and contrast the struggle and achievements of Evelyne Glennie and Bismillah Khan -Students will be able to	prepare a collage on achievements of Evelyne Glennie and Bismillah Khan and give its descriptions	Smart board lecture and discussion method Brainstorming, Collaborative, critical thinking	-to compare and contrast the struggle and achievements of Evelyne Glennie and Bismillah Khan -Students will be able to extrapolate beyond the text and

		<p>extrapolate beyond the text and analyze how determination, perseverance and persistent effort can lead to success.</p> <p>To sensitize themselves to the feelings of an individual.</p> <p>-To be able to answer comprehensive questions</p>			<p>analyze how determination, perseverance and persistent effort can lead to success.</p> <p>-To sensitize themselves to the feelings of an individual.</p> <p>-To be able to answer comprehensive questions</p>
	Grammar: Tenses (future)	<p>-To define Future Tense</p> <p>-To identify Future Tense in a sentence.</p> <p>- To state the structure and form a Future Tense</p> <p>-Frame sentences</p>		Power Point presentation Grammar book exercises	<p>-able to Identify Future Tense correctly</p> <p>-Uses Future Tense correctly while writing and speaking</p>
July	Beehive- Ch-3 The Little Girl	<p>By the end of the topic a student will be able to:</p> <p>-infer the thoughts and emotions of Kezia, her father and her grandmother</p> <p>-to analyze how it is essential to empathize and know a person for a healthy relationship</p> <p>-comprehend and analyze the plot, incidents and characters.</p>	Pronunciation Drill	Discussion explanation Power Point Presentation, Critical and analytical thinking	<p>Students will be able to:</p> <p>-infer the thoughts and emotions of Kezia, her father and her grandmother</p> <p>-to analyze how it is essential to empathize and know a person for a healthy relationship</p> <p>-comprehend and analyze the plot, incidents and characters.</p>
	Beehive: poem- Rain on the roof	<p>-To enable them grasp the theme and gist of the poem.</p> <p>-Know about poet and literary background</p>		Discussion explanation Power Point Presentation, RTC	<p>Students will be able to –</p> <p>-to know more about literary devices used by the poet</p> <p>-To develop Comprehending , Reading, Listening and</p>

		<ul style="list-style-type: none"> -Recite the poem with proper intonation and correct pronunciation - to analyze the healing power of rain 			<p>Imaginative skills</p> <ul style="list-style-type: none"> - To appreciate the beauty, rhyme and style of the poem - to analyze the healing power of rain
	Moments- Ch-2 The adventures of Toto	<ul style="list-style-type: none"> -To instill values of generosity, kindness, humility and communal harmony among students -To promote the reading habits of students. -Enrich the vocabulary of the students -To understand the central idea and develop the moral of the story. 		<p>Brainstorming Collaborative, critical thinking Smart board lecture and discussion method</p>	<ul style="list-style-type: none"> -To instill values of generosity, kindness, humility and communal harmony among students -To promote the reading habits of students. -Enrich the vocabulary of the students -To understand the central idea and develop the moral of the story.
	Moments: Ch-3 Ishwaran the Storyteller	<ul style="list-style-type: none"> -To enable the students to comprehend the gist of the story- Ishwaran the story Teller. -To provide a platform to the students where they can differentiate between natural and unnatural world. -To make the students able to understand difficult words. -To make the students able to answer all objective question and short notes 		<p>Brainstorming, Collaborative, critical thinking, Smart board lecture and discussion method</p>	<ul style="list-style-type: none"> -To enable the students to comprehend the gist of the story- Ishwaran the story Teller. -To provide a platform to the students where they can differentiate between natural and unnatural world. -To make the students able to understand difficult words. -To make the students able to answer all objective question and short notes on the basis of the story.

		on the basis of the story.			
	Grammar: Subject- Verb Concord	Students will be able to- -apply the rules of subject-verb agreement correctly - to construct their own sentences with agreement of verb with its subject in writing as well as speaking		Power Point presentation Grammar book exercises	Students will be able to- -apply the rules of subject-verb agreement correctly - to construct their own sentences with agreement of verb with its subject in writing as well as speaking
	WRITING SKILL: Story writing	-The students will be able to focus on the major skills of English. -They will be able to express their ideas in the form of short and long writing skills	Elaborate a story with the given outlines.	-Familiarize the students with different formats of the writing skills -Practice exercise of each writing skill will be given	-Students will be able to: develop appropriate style of writing. - use of accurate vocabulary, expressions and sentence structure -to be able to apply the knowledge of tenses
August	Beehive- Ch-4 A truly beautiful mind	-To inculcate the interest of the students to learn English language. -To develop the scientific temper of students. -To promote the reading habits of students. -To make the students conscious of the scientific invention and discoveries.		Discussion explanation Power Point Presentation	-To inculcate the interest of the students to learn English language. -To develop the scientific temper of students. -To promote the reading habits of students. -To make the students conscious of the scientific invention and discoveries.
	Beehive: Ch-5 the snake and the mirror	-To explore and elevate evil in beauty. -to analyze and infer why we usually not get what we want. -To develop critical thinking by analyzing the		Brainstorming, Collaborative, critical thinking, Smart board lecture and discussion method	-To explore and elevate evil in beauty. -to analyze and infer why we usually not get what we want. -To develop critical thinking by analyzing the text -To sensitize themselves to the

		<p>text</p> <ul style="list-style-type: none"> -To sensitize themselves to the feelings of an individual. -To be able to answer comprehensive questions 			<p>feelings of an individual.</p> <ul style="list-style-type: none"> -To be able to answer comprehensive questions
	Beehive : poem-4 The Lake Isle of Innisfree	<ul style="list-style-type: none"> -To enable them grasp the theme and gist of the poem. -Know about poet and literary background -Recite the poem with proper intonation and correct pronunciation 		<p>Discussion explanation Power Point Presentation, RTC</p>	<p>Students will be able to –</p> <ul style="list-style-type: none"> -to know more about literary devices used by the poet -To develop Comprehending , Reading, Listening and Imaginative skills - To appreciate the beauty, rhyme and style of the poem
	Moments : Moments- Ch-4 In the kingdom of fools	<ul style="list-style-type: none"> -To enrich the vocabulary of the students. -To develop their imagination powers and ideas. -To develop the faith and honors of teacher in the minds of disciples. -To inculcate the morals and values to the students. 		<p>Brainstorming, Collaborative, critical thinking, Smart board lecture and discussion method</p>	<ul style="list-style-type: none"> -To enrich the vocabulary of the students. -To develop their imagination powers and ideas. -To develop the faith and honors of teacher in the minds of disciples. -To inculcate the morals and values to the students.
	GRAMMAR Modals	<ul style="list-style-type: none"> -to identify verbs in a Sentence. -to understand various kinds of verbs and distinguish them from one another -to apply knowledge of modals in command, mood among others 		<p>Topic related Videos, PPTs will be shown Activities will be performed Assessments Quizzes</p>	<ul style="list-style-type: none"> -identify verbs in a Sentence. -understand various kinds of verbs and distinguish them from one another. -to apply knowledge of modals in command, mood among others

	Writing: descriptive paragraph (Person)	-students will be able to: Develop key questions to find out about the person or event -able to write cohesive sentences to create a descriptive paragraph	-Describe your favourite actor in 100-150 words	Power Point presentation Grammar book exercises	-students will be able to: Develop key questions to find out about the person or event -able to write cohesive sentences to create a descriptive paragraph
September	Revision of all topics	Revision of all topics		Class tests, practice worksheet	Revision of all topics
October	Beehive-Ch-6 my childhood	By the end of the topic a student will be able to: -comprehend and analyse the plot, incidents and characters. -to understand the central idea and develop the moral of the story. -To enrich the vocabulary of the students to use the same correctly		Brainstorming Collaborative, critical thinking Smart board lecture and discussion method	Students will be able to -interpret the incidents and analyze the characters. -To develop production skills (fluency and accuracy in speaking and writing answers). - To be able to answer comprehensive questions based on the extract
	Beehive: poem A legend of the northland	-Enrich the vocabulary of the students and use the same correctly. -Understand the culture, lifestyle and belief of the people living in the region - Enjoy poetry in the form of Ballad - Recite the poem with proper intonation and correct pronunciation		Discussion explanation Power Point Presentation, RTC	-Enrich the vocabulary of the students and use the same correctly. -Understand the culture, lifestyle and belief of the people living in the region - Enjoy poetry in the form of Ballad - Recite the poem with proper intonation and correct pronunciation
	Moments: Ch- The happy	-To develop a love for		Brainstorming,	-To develop a love for literature

	prince	<p>literature in students.</p> <ul style="list-style-type: none"> -To introduce the students with life and works of Oscar Wilde. - To introduce new vocabulary - To make the students inculcate values like love, compassion, sacrifice and empathy 		<p>Collaborative, critical thinking, Smart board lecture and discussion method</p>	<p>in students.</p> <ul style="list-style-type: none"> -To introduce the students with life and works of Oscar Wilde. - To introduce new vocabulary - To make the students inculcate values like love, compassion, sacrifice and empathy
	GRAMMAR Determiners	<ul style="list-style-type: none"> -to identify the types of determiners. -to effectively use the determiners in a sentence -to differentiate between the use of determiner and adjective 		<p>Power Point presentation Grammar book exercises</p>	<ul style="list-style-type: none"> -to identify the types of determiners. -to effectively use the determiners in a sentence -to differentiate between the use of determiner and adjective
	Writing Skill: Descriptive paragraph (event)	<ul style="list-style-type: none"> -students will be able to: Develop key questions to find out about the event -able to write cohesive sentences to create a descriptive paragraph 	<p>write a descriptive paragraph on the given input</p>	<p>Power Point presentation Grammar book exercises</p>	<ul style="list-style-type: none"> -students will be able to: Develop key questions to find out about the person or event -able to write cohesive sentences to create a descriptive paragraph
November	Beehive- Ch-7 Reach for the top	<p>By the end of the topic a student will be able to:</p> <ul style="list-style-type: none"> -comprehend and analyze the incidents -to understand the details and history about the person -To enrich the vocabulary of the students to use the same correctly 		<p>Brainstorming Collaborative, critical thinking Smart board lecture and discussion method</p>	<ul style="list-style-type: none"> -To develop critical thinking by analyzing the text -To sensitize themselves to the feelings of an individual. -To be able to answer comprehensive questions

	Beehive :Poem-6 No men are foreign	<ul style="list-style-type: none"> -To enable them grasp the theme and gist of the poem. -Know about poet and literary background -Recite the poem with proper intonation and correct pronunciation 	Find out the figure of speech used by the poet	Discussion explanation Power Point Presentation, RTC	<p>Students will be able to -</p> <ul style="list-style-type: none"> - know more about literary devices used by the poet -Nature and theme of the poem -describe the meaning of new words and use them efficiently
	Moments- Ch-6 The last leaf	<ul style="list-style-type: none"> -to understand the importance of hope, friendship. -To enable the learners to extrapolate from the given text. -To sensitize themselves to the feelings of an individual -to develop courage and confidence to face critical situations in life. 		Brainstorming Collaborative, critical thinking Smart board lecture and discussion method	<ul style="list-style-type: none"> -to understand the importance of hope, friendship. -To enable the learners to extrapolate from the given text. -To sensitize themselves to the feelings of an individual -to develop courage and confidence to face critical situations in life.
	Grammar: Tenses	Revision of tenses (present, past, future)		Practice worksheet, assignments and exercises from book	Revision of tenses (present, past, future)
	Writing skills: Letter writing (letter of complaint)	<ul style="list-style-type: none"> -to know the purpose of writing letter -understand the format apply the knowledge in practical life -to write letter accurately by following the format 	Write a letter to the Jindal pvt ltd, surya nagar regarding defect in washing machine purchased by you.	Discussion, familiarize the format, sample	<ul style="list-style-type: none"> -to know the purpose of writing letter -understand the format apply the knowledge in practical life -to write letter accurately by following the format
Decem	Beehive- Ch-8 Khatmandu	-To promote the reading		Brainstorming	-To develop critical thinking

ber		habits of students. -Enrich the vocabulary of the students -to understand the central idea and develop the moral of the story.		Collaborative, critical thinking Smart board lecture and discussion method	by analyzing the text -To sensitize themselves to the feelings of an individual. -To be able to answer comprehensive questions
	Beehive: Poem-7 On killing a tree	-To enable them grasp the theme and gist of the poem. -Know about poet and literary background -Recite the poem with proper intonation and correct pronunciation	Find out the figure of speech used by the poet	Discussion explanation Power Point Presentation, RTC	Students will be able to - - know more about literary devices used by the poet -Nature and theme of the poem -describe the meaning of new words and use them efficiently
	Moments: Moments- Ch-7 A house is not a home	-To enable the students to understand the term 'disaster'. - To sensitize themselves to the feelings of an individual -To develop production skills (fluency and accuracy in speaking and writing answers) -To enable to distinguish between natural and manmade disaster.		Brainstorming Collaborative, critical thinking Smart board lecture and discussion method	-To enable the students to understand the term 'disaster'. - To sensitize themselves to the feelings of an individual -To develop production skills (fluency and accuracy in speaking and writing answers) -To enable to distinguish between natural and manmade disaster.
	Grammar: reported speech	-Students will be able to use reported speech while speaking and writing -apply rules to change the speech from direct to indirect	Restate dialogue from the movie using reported speech	Discussion and explanation with examples -Workbook Exercises & Practice Exercises	-Students will be able to use reported speech while speaking and writing -apply rules to change the speech from direct to indirect -how to reported orders,

		-how to reported orders, requests or command			requests or command
	WRITING SKILL: Diary WRITING	-The students will be able to focus on the major skills of English. -They will be able to express their ideas in the form of short and long writing skills -to express their feelings in personal manner	Write a diary entry about your best day at school.	-Familiarize the students with different formats of the writing skills -Practice exercise of each writing skill will be given	-Students will be able to: develop appropriate style of writing. - use of accurate vocabulary, expressions and sentence structure -to be able to apply the knowledge of tenses -to infer the use of idioms.
January	Beehive- Ch-9 If I were you	Students will be able to -Analyze, interpret, and infer ideas from the text. -Enhance their creativity and imagination comprehend and analyze the plot, incidents and characters.		Brainstorming , Collaborative, critical thinking Smart board lecture and discussion method	-To enable the learners to extrapolate from the given text. -To sensitize themselves to the feelings of an individual -To develop production skills (fluency and accuracy in speaking and writing answers)

	Beehive- poem-8 A slumber did my spirit seal	<ul style="list-style-type: none"> -To enable them grasp the theme and gist of the poem. -Know about poet and literary background -Recite the poem with proper intonation and correct pronunciation 	Find out figure of speech used by the poet.	Discussion explanation Power Point Presentation, RTC	<p>Students will be able to –</p> <ul style="list-style-type: none"> -to know more about literary devices used by the poet -To develop Comprehending , Reading, Listening and Imaginative skills - To appreciate the beauty, rhyme and style of the poem
	Moments – ch- The beggar	<ul style="list-style-type: none"> -To enrich vocabulary and its usage within appropriate context -To be truthful irrespective of situations -To make them understand the relationship between self-awareness, violation of personal space and helping behavior -To equip them in attaining means of living 	Class presentation on : How can we help beggars/ abolish begging?	Collaborative, critical thinking Smart board lecture and discussion method	<ul style="list-style-type: none"> -To enrich vocabulary and its usage within appropriate context -To be truthful irrespective of situations -To make them understand the relationship between self-awareness, violation of personal space and helping behavior -To equip them in attaining means of living
	GRAMMAR : REPORTED SPEECH (Direct	-Students will be able to use reported speech while	Restate dialogue from the movie	Discussion and explanation with examples	-Students will be able to use reported speech while speaking

	and indirect)	speaking and writing -apply rules to change the speech from direct to indirect -how to reported orders, requests or command	using reported speech	-Workbook Exercises & Practice Exercises	and writing -apply rules to change the speech from direct to indirect -how to reported orders, requests or command
February	Revision of all the topics	Revision of all the topics		Class tests, practice worksheet	Revision of all the topics

WEEKLY TEST I

Reading- UNSEEN PASSAGE

Grammar- JUMBLED SENTENCES, TENSES, EDITING AND ERROR

Writing- LETTER WRITING (LETTER TO EDITOR)

WEEKLY TEST II

Reading- UNSEEN PASSAGE

Grammar- tenses, sub-verb concord, editing and errors

Writing- STORY WRITING

Literature- beehive: ch-1the fun they had

Poem- the road not taken, the wind

Moments-ch-1the lost child,ch-2 The adventures of Toto

HALF YEARLY EXAMINATION

Reading- UNSEEN PASSAGE

Grammar- tenses, subject-verb concord, modals, editing and errors

Writing- letter to editor, story writing, descriptive paragraph (person)

Literature-

Beehive- ch-1 the fun they had , ch-2 Ch-3 The Little Girl, Ch-4 A truly beautiful mind, Ch-5 the snake and the mirror

poem-1the road not taken, poem-2 the wind, poem-3 Rain on the roof, poem-4 The Lake Isle of Innisfree

Moments- ch-1 the lost child, Ch-2 The adventures of Toto, Ch-3 Iswaran the Storyteller, Ch-4 In the kingdom of fools

WEEKLY TEST III

Reading- UNSEEN PASSAGE

Grammar- editing and errors, determiners, jumbled sentences

Writing- Descriptive paragraph

Literature-

WEEKLY TEST IV

Reading- UNSEEN PASSAGE

Grammar- reported speech, tenses, editing and errors

Writing- letter of complaint

Literature- beehive- ch-6 my childhood, ch-7 Reach for the top

Poem- poem-5 A legend of the northland, poem-6 No men are foreign

Moments- Ch-5 the happy prince

ANNUAL TERM EXAMINATION

COMPLETE SYLLABUS

Reading- unseen passages

Grammar- COMPLETE SYLLABUS

Writing- COMPLETE SYLLABUS

Literature- COMPLETE SYLLABUS

				examination question papers other than exercise problems.	
May	Chap – 7 : Motion(cont)	Students will be able to----- ---Differentiate between speed, velocity, uniform motion- non uniform motion. ---will be able to solve numericals related to speed, velocity, acceleration etc.		Students will: Design an experimental model that will allow for the measurement of distance and time and the calculation of velocity. Conduct a controlled experiment that allows the collection of distance/time data. Organize and graph data and use a mathematical equation to calculate slope in order to make connections between distance, time, and velocity. Describe the motion of an object along a path. Students will analyze the motion of a student walking across the room using the Motion Detector. They will also predict, sketch and test position and velocity vs. time kinematics graphs.	At the end of the Chapter, children will be able to: Differentiate between scalar and vector quantities & explain the difference between distance and displacement, speed and velocity with examples; Explain the concept of acceleration and critically analyse the different types of motion; Represent each types of motion graphically; Derive the three equations of motion graphically; Explain uniform circular motion, and reason out that why it is known as an accelerated motion with the help of an activity; Enhance their inquisitiveness to apply their knowledge and skills in their day to day life to know the reason behind many things happening around them.
July	Chap - 5 : Cell : Fundamental unit of life.(Biology)	Students will be able to---- --Define a cell, cytoplasm, chromosomes, cell organelles --Classify the organisms into unicellular and multicellular	Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells	discussion through examples from life , lecture method, Question answer through open ended situations	1.Students should be able to describe the discovery of cells. 2.Students should be able to explain cell theory. 3.Students should be able to describe the structural organization

	<p>Chap - 2 : Is matter around us pure. (Chemistry)</p>	<p>-- Compare the plant and animal cell, prokaryotic and eukaryotic cell -- Understand the types of microscope, process of staining -- Explain the function of each cell organelle.</p> <p>Students will be able to----- --Define an element</p> <p>--Classify the elements into metals, nonmetals and metalloids</p> <p>-- Compare the properties of metals and non-metals</p> <p>-- Understand the separation techniques for different type of mixtures.</p>	<p>Preparation of: Unit-I 1) a true solution,b) a suspension,c) a colloidal solution. 2. Preparation of Unit-I a) A mixture b) A compound using iron filings and sulphur powder</p>	<p>Innovative practices to be used: Teaching using some locally available materials like beakers, copper sulphate chalk powder etc Partially teaching by practical demonstrations and partially by using e- content lecture method Paperless testing like MCQ,</p>	<p>of a cell. 4.Students should be able to list the various components of a cell and State their functions. 5.Students should be able to differentiate between prokaryotic and Eukaryotic cells. 6.Students should be able to draw and label plant and animal cell. 7.Students should be able to have basic understanding of chromosomes, DNA and types of cell division.</p> <p>Students will be able to...</p> <ol style="list-style-type: none"> 1. Recall the Matter and its classification. 2. Understand the difference between pure substance and mixture. 3. Appreciates the properties of different types of mixture. 4. Explains the different techniques for the separation of mixtures. 5. Apply the knowledge of various separation techniques in daily life situations. 6. Demonstrate physical and chemical changes with examples 7. Differentiate between mixtures and compounds
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		<p>and animal tissue.</p> <ul style="list-style-type: none"> •classify different types of plant tissues. • Different type of meristematic tissue on their location and functions. • simple permanent and complex permanent tissue location and function. • Identify and classify different types of animal tissues. • Different types of epithelial tissues, their location and function . • Identify, classify and describe the function of different type of connective tissue. • Explain different type of muscular tissue based on their structure and function. • Explain nervous tissue and draw neuron diagram. 		<p>Content), Think Line, Closure. Various active learning and collaborative strategies will be followed during the transaction of lesson plan.</p>	<ul style="list-style-type: none"> • Categorize different type of meristematic tissue on their location and functions. • Differentiate between simple permanent and complex permanent tissue. • Explain simple and permanent tissues, there specific features, structure, location and function. • Identify and classify different types of animal tissues. • Learn different types of epithelial tissues, their location and function . • Identify, classify and describe the function of different type of connective tissue. • Explain different type of muscular tissue based on their structure and function. • Explain nervous tissue and draw neuron diagram.
September	<p>Chap - 3 : Atoms and molecules (Chemistry) Term 1 exams</p>	<p>1- Explain Law of conservation of mass & constant proportion with examples. 2-Describe atom, Atomic mass, symbols of elements, how atoms exist? Amu , mole concept. 3- molecules, Its types as molecules of elements & molecules of compounds with examples. 4- Student can understand about ions. Cations & anions with</p>		<p>Teaching will be on online mode in which students will be made to understand every topic of the chapter. Methodology will include displaying the topics by screen sharing ppts, video display and online lectures. Students will be made to indulge in some hands on activities that will give better understanding of the chapter.</p>	<p>1-Students will able to tell history of atom's discovery. Explain Law of conservation of mass & constant proportion with examples. 2- Can describe atom, Atomic mass, symbols of elements, how atoms exist? Amu , mole concept. 3- Can explain molecules. Its types as molecules of elements & molecules of compounds with examples. 4- Student can understand about</p>

		<p>examples. Names & symbols of ions.</p> <p>5- Write chemical formulas of simple chemical compounds & their name.</p> <p>6- Calculate molecular mass of molecules & compounds. Explain mole concept.</p> <p>7- Can solve the problems based on molar mass & mole concepts.</p>			<p>ions. Cations & anions with examples. Names & symbols of ions.</p> <p>5- Student will able to write chemical formulas of simple chemical compounds & their name.</p> <p>6- Student can understand & calculate molecular mass of molecules & compounds. Explain mole concept.</p> <p>7- Can solve the problems based on molar mass & mole concepts.</p>
October	<p>Chap – 3 (contd.) : Atom and molecules(Chemistry)</p> <p>Chap – 9 : Gravitation (Physics) Weakly Test 3</p>	<p>Learners will be able understand the Concept of gravitational force and Universal law of Gravitation. To understand free fall and how to calculate the value of 'g'</p> <p>4. To understand Mass and weight and weight of an object on the Moon.</p> <p>5. To understand thrust and pressure and Pressure in fluid, Buoyancy and Archimedes' Principle.</p>	<p>Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder</p> <p>Establishing the relation between the loss in weight of a solid when fully immersed in</p> <p>a) Tap water b) Strongly salty water with the weight of water displaced by it by taking at least two different</p>	<p>Teaching will be on offline /online mode in which students will be made to understand every topic of the chapter. Methodology will include displaying the topics by screen sharing ppts, video display and online lectures / offline class lectures.</p> <p>Hands on activities will increase interest among students.</p>	<p>1. To make the learners to understand the Concept of gravitational force and Universal law of Gravitation.</p> <p>2. To make the learners to understand Kepler's laws of planetary motion.</p> <p>3. To make the learners to understand free fall and how to calculate the value of 'g'</p> <p>4. To make the learners to understand Mass and weight and weight of an object on the Moon.</p> <p>5. To make the learners to understand thrust and pressure and Pressure in fluid, Buoyancy and Archimedes' Principle.</p>

			solids.		<p>6. Develop child's individual skills, interests attitudes and motivation.</p> <p>7. Understand and lead a healthy and productive life.</p> <p>8. Respond to different situations and opportunities both in and out of school.</p>
November	<p>Chap - 4 : Structure of atom (Chemistry)</p> <p>Chap - 10 : Work , energy and power (Physics)</p>	<p>Explain discovery of sub atomic particles and their properties. Compare different atomic models and advances which resulted in their failure. Explain Bohr's atomic model and the distribution of sub atomic particles in it. Relate properties of atom with distribution of subatomic particles; understand and explain the concepts like valency & atomicity.</p> <p>Appreciate the importance of Bohr's model; critically examine different atoms to understand the concept of isotopes and isobars.</p>	<p>Determination of the speed of a pulse propagated through a stretched string/slinky (helical spring).</p>		<p>Explain the experimental evidences associated with discovery of sub atomic particles and their properties. Describe, analyze and compare different atomic models and advances which resulted in their failure. Explain Bohr's atomic model and the distribution of sub atomic particles in it. Relate properties of atom with distribution of subatomic particles; understand and explain the concepts like valency & atomicity. Appreciate the importance of Bohr's model; critically examine different atoms to understand the concept of isotopes and isobars.</p>
December	Chap - 10 : Work ,	To explain the scientific concept		Innovative practices to be used:	

	<p>energy and power(cont.)</p>	<p>of work, and identify the concept of positive, negative and zero work. To explain the relationship of force with work. To calculate the work done by any object in the absence or presence of force. To explain and understand the basics of Energy, forms of energy, interconversion of energy and it's relation with work. To describe kinetic energy and potential energy by defining, deriving their formulae, their interconversion, examples and related numerical. To elaborate law of conservation of energy with the help of examples to show that total energy is constant. To explain concept of power and all related units. To calculate electricity bill by concept of commercial unit of energy and hence in the long run learn to check misuse of energy in their surroundings.</p>		<p>Teaching using some locally available materials like beakers, copper sulphate chalk powder etc Partially teaching by practical demonstrations and partially by using e- content lecture method Paperless testing like MCQ.</p>	<p>Students will be able to explain the scientific concept of work, and identify the concept of positive, negative and zero work. ☑ They will be able to explain the relationship of force with work. ☑ They will be able to calculate the work done by any object in the absence or presence of force. ☑ They will be able to explain and understand the basics of Energy, forms of energy, interconversion of energy and it's relation with work. ☑ They will be able to describe kinetic energy and potential energy by defining, deriving their formulae, their interconversion, examples and related numerical. ☑ They will be able to elaborate law of conservation of energy with the help of examples to show that total energy is constant. ☑ They will be able to explain concept of power and all related units. ☑ They will be able to calculate electricity bill by concept of commercial unit of energy and hence in the long run learn to check misuse of energy in</p>
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	<p>Chap - 12 : Improvement in food resources(Biology)</p>	<p>The students will be able to understand the basic management practices required for the raising of crops. They can also explain the management practices required for breeding, feeding and disease control required for poultry and dairy animals This lesson requires</p> <ol style="list-style-type: none"> 1. Basic knowledge of crop, cropping practices 2. Basic knowledge of different crops, management practices already learnt in class VII and VIII <p>Assessment of qualifying knowledge</p> <ol style="list-style-type: none"> 1. Written test 2. Lab activity 3. Group Discussion 4. HW notebook 		<p>This lesson requires</p> <ol style="list-style-type: none"> 1. Basic knowledge of crop, cropping practices 2. Basic knowledge of different crops, management practices already learnt in class VII and VIII <p>Assessment of qualifying knowledge</p> <ol style="list-style-type: none"> 1. Written test 2. Lab activity 3. Group Discussion 4. HW notebook 	<p>their surroundings.</p> <p>Applies the interdependency and interrelationship in the biotic and abiotic factors of environment to promote conservation of environment, such as organic farming, waste management, etc. ☑ draws conclusion, such as classification of life forms & its utility in food resources , deficiency of nutrients affects physiological processes in plants. ☑ applies scientific concepts in daily life and solving problems, such as follows intercropping and crop rotation, takes preventive measures to control disease causing agents, taking care of animals & process of hybridization etc. ☑ analyses and interprets graphs/ figures etc., such, crop yield after application of fertilizers, etc.</p>
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					<p>☒ relates processes and phenomena with causes/ effects, such as symptoms with diseases/ causal agents, production with use of fertilizers,</p> <p>☒ classifies materials/ objects/ organisms/ phenomena/ processes, based on, properties/ characteristics, such as classification of plants, various species of animals used for food , fish varieties and methods of fish composite culture.</p>
January	Chap-11 Sound(Physics)	<p>Define sound, vibration, frequency amplitude, time period, simple pendulum etc.</p> <p>--Identify the characteristics of sound ie. Pitch, Loudness and Quality of sound.</p> <p>-- Differentiate between audible and inaudible sounds, Music and Noise.</p> <p>-- Understand the structure and working of human ear and about hearing impairment.</p> <p>--Classify the musical instruments.</p> <p>-- Explain the harmful effects of Noise Pollution</p>	Verification of the Laws of reflection of sound		<p>Explain the propagation of sound through a medium.</p> <ul style="list-style-type: none"> • Identify sound waves as longitudinal waves. • Describe the characteristics of sound waves. • Compare the speed of sound in different media. • Verify laws of reflection of sound. • Analyse the uses of multiple reflection of sound. • Explain the applications of ultrasound. • Calculate the speed of sound in a medium.

		and measures to reduce it.			
February	Revision				

Weekly Test1 Chapter 1,7

Weekly Test2 Chapter 5,7

Half Yearly - chapter 1,2,3,5,6,7,8

Weekly Test 3 - Chapter 3,9

Weekly Test 4- chapter 11,12

Annual Exam Syllabus. - chapter 3,4,5,6,9,10,11,12



Annual Curriculum (2023-24)

GRADE - IX

SUBJECT- ARTIFICIAL INTELLIGENCE

Book prescribed: Artificial Intelligence (Kips Publication)

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of Teaching	Learning Outcome
April	Unit I Communication Skills Ch 1 Methods of Communication Ch 2 Communication Cycle Ch 3 Perspectives in Communication Ch 4 Basic Writing Skills Ch 7 Introduction to ICT	To know and discuss about Communication Skills	Group Discussion on Perspectives in Communication and Basic Writing Skills	Interactive, demonstrative and Practical Method	Students will be able to know and discuss about Communication Skills
May	Ch 8 Components of Computer System Ch 9 Peripheral Devices Ch 10 Basic Computer Operations	To know and understand about Information and Communication Technology Skills	Collect information about Digital India Initiatives taken by the Government of India and Present Make a Poster on Input /Output Devices	Interactive, demonstrative and Practical Method	Students will be able to know and understand about Information and Communication Technology Skills

July	Ch 11 Operating Systems Ch 12 Introduction to Internet Ch 13 Introduction to E-mail Ch 14 Introduction to Social Media	To know and understand about Information and Communication Technology Skills	Make a video Presentation on OS or Internet or Email or Social Media	Interactive, demonstrative and Practical Method	Students will be able to know and understand about Information and Communication Technology Skills
August	Unit I Introduction to AI	To know and understand about AI	AI Based Teachable Machine Project or Auto Draw AI Based Game	Interactive, demonstrative and Practical Method	Students will be able to know and understand about AI
September	Revision				
October	Unit II AI Project Cycle	To know and understand about AI Project Cycle	Data Curation Using AI Data Curation Techniques	Interactive, demonstrative and Practical Method	Students will be able to know and understand about AI Project Cycle
November	Unit III Neural Networks	To know and understand about Neural Network	AI Based : Cartoonify / Quick Draw	Interactive, demonstrative and Practical Method	Students will be able to know and understand about Neural Network
December – January	Unit IV Introduction to Python Appendix A1, A3, A5	To know and understand about Python	Python Programs	Interactive, demonstrative and Practical Method	Students will be able to know and understand about Python
February	Revision				

Weekly Test 1: Ch- 1,2,3,4,7,

Weekly Test 2: Ch- 8,9,10,11,12,13,14

Half Yearly : Part A-Unit 1 and Part B Unit 1

Weekly Test 3: Unit I,II

Weekly Test 4: Unit III, IV

Annual Exam Syllabus: Part A Unit I, Part B Unit I,II,III,IV Appendix A1,A3, A5