



Annual Curriculum (2023-24)

GRADE - VIII

SUBJECT- ENGLISH

Book prescribed : Together With (Multiskill Coursebook)

: Grammar- The Grammar Connect

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
April	Unit-1 Ch-2 Two young girls	By the end of the topic a student will be able to: -comprehend and analyze the plot, incidents and characters. -to understand the central idea and realize the importance of selflessness of friendship -To enrich the vocabulary of the students	On an A-4 size sheet , present the core values possessed by a human being. Write a letter to your best friend and tell her why you value each other's company.	Brainstorming , Collaborative, critical thinking Smart board lecture and discussion method	Students will be able to : - To develop production skills (fluency and accuracy in speaking and writing answers). - To be able to answer comprehensive questions based on the extract -demonstrate enhanced social and interpersonal skills.
	GRAMMAR Unit- 8 Subject verb agreement	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: (Formal letter)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	Write a letter to the editor of national daily expressing your concern towards pathetic condition of park of your locality.	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

		in the desire manner on social issue			issue
May	Unit-3 Ch-2 Forest Treasures	-To promote the reading habits of students. -Enrich the vocabulary of the students	Demonstrate the process of recycling using waste material on an A-4 size sheet	Smart board lecture and discussion method Brainstorming, Collaborative, critical thinking	- To develop critical thinking by analyzing the text -To sensitize themselves to the nature -To be able to answer competency based questions -to demonstrate concern for wildlife and nature
	GRAMMAR- Unit-1 Articles and determiners	-to articulate the use of definite or indefinite articles in particular contexts. -to differentiate among a, an, the with the use of sound use accurate articles in day to day expressions in verbal and written form		Discussion and explanation with examples -Workbook Exercises & Practice Exercises	Students will be able to: -Acquire knowledge through rules in grammar - to explore the use of definite and indefinite articles - use accurate articles in day to day expressions in verbal and written form
July	UNIT-3 Chapter-1 The Barber's Poor uncle Misak	By the end of the topic a student will be able to: -comprehend and analyze the plot, incidents and characters. -To show respect towards all the professions	Mention any 2 countries in the world where a large India Diaspora can be found. How is the culture of different countries related?	Discussion explanation Power Point Presentation, RTC	Students will be able to: -To inculcate the habit of reading comprehend and analyze the plot, incidents and characters. -to develop life skills such as making wise decisions.
	UNIT-3 The Gallows (Poetry)	-To enable them grasp the theme and gist of the poem.	Consult a veterinary doctor and suggest ways	Discussion explanation Power Point Presentation, RTC	Students will be able to – -to know more about literary devices used by the poet

		-Know about poet and literary background -Recite the poem with proper intonation and correct pronunciation	how to take care of stray dogs in your locality. Paste pictures and draft the information on A-4size sheet		-To nurture a caring attitude towards the living beings - To appreciate the beauty, rhyme and style of the poem
	GRAMMAR UNIT-3 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	Describe yourself in 10 lines using present tense	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 UNIT-5 Verbs Modals	-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		Topic related Videos, PPTs will be shown Activities will be performed Assessments Quizzes	-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 Skill: 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 sportsperson.	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
August	UNIT-4 Ch-1 Fire in the forest	By the end of the topic a student will be able to: -comprehend and analyze the plot, incidents and characters. -to appreciate the majesty of mother's love.	Write a slogan on women empowerment	Discussion explanation Power Point Presentation, RTC	By the end of the topic a student will be able to: -to know about inspirational women who were 'first' in their chosen career paths -to understand the central idea and develop the sense of respect for females, be it humans or animals

	GRAMMAR UNIT-4 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.		Power Point presentation Grammar book exercises	-Identifies Past Tense correctly -Uses Past Tense correctly While writing. -Writes paragraphs using Past Tense correctly
	GRAMMAR UNIT-5 Tenses (Future)	-To define Future Tense -To identify Future Tense in a sentence. - To state the structure and form a Future Tense -Frame sentences		Power Point presentation Grammar book exercises	-able to Identify Future Tense correctly -Uses Future Tense correctly while writing and 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
	Novel:	-Students will be able to develop the habit of reading -To analyze the plot and the characters -to summarize the story in their own words		Power point presentation, collaborative and critical thinking	-Students will be able to develop the habit of reading -To analyze the plot and the characters -to summarize the story in their own words
September	Unit-4 Mother to son (poetry)	-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	Create a poem of about 10 -15 lines on 'Mother'	Discussion explanation Power Point Presentation, RTC	Students will be able to - - know more about literary devices used by the poet -to know about the life lessons passed on by one's mother -describe the meaning of new words and use them efficiently
	Revision of all topics	Revision of all topics		Class tests, practice	Revision of all topics

				worksheet	
October	UNIT-5 CHAPTER-1 Monuments of ancient India	By the end of the topic a student will be able to: -to gain knowledge about the glorious heritage of our country. -to learn about the monuments of ancient India -To enrich the vocabulary of the students to use the same correctly	Make a model of any monument of India to preserve the heritage of our country.	Brainstorming Collaborative, critical thinking Smart board lecture and discussion method	Students will be able to - to learn about the monuments of ancient India -To develop production skills (fluency and accuracy in speaking and writing answers). - To gain knowledge about the glorious heritage of our country.
	Poem- The gift of india	-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	Write 5 ways in which you can show patriotism towards your country.	Discussion explanation Power Point Presentation, RTC	Students will be able to - - know more about literary devices used by the poet -to interpret the message of the poem. -to realise the contribution of Indian soldiers in achieving freedom
	GRAMMAR - Preposition	-students will explain and apply the knowledge to the position of the noun. -students will learn about prepositional words. -interpret given editing and omitting exercises for their suitable application		Topic related Videos, PPTs will be shown Activities will be performed Assessments Quizzes	-students will explain and apply the knowledge to the position of the noun. -students will learn about prepositional words. -interpret given editing and omitting exercises for their suitable application
	Writing skill: Diary Entry	-Explain the purpose of keeping a diary. -Describe the format of a diary entry. -Create a diary. -students will be able to express themselves		Discussion and explanation of Format	-Explain the purpose of keeping a diary. -Describe the format of a diary entry. -Create a diary. -students will be able to express themselves
Novembe	Unit-6 Chapter-2 live your	By the end of the topic a	Make a project	Brainstorming	-To develop critical thinking

r	passion	student will be able to: -to understand the value of realizing his/ her dreams -to understand the details and history about the person -To enrich the vocabulary of the students to use the same correctly	on the true inspirational stories of sportspersons and suggest ways in which sports help us gain control over the difficulties in our lives.	Collaborative, critical thinking Smart board lecture and discussion method	by analyzing the text -To gain knowledge about inspirational stories of people with different sports -To be able to answer comprehensive questions
	GRAMMAR UNIT-Conjunctions	-students will be able to use conjunctions in sentence. -they can differentiate between a subordinate and coordinate conjunctions -demonstrate the understanding of conjunctions by applying rules and structure.		Discussion and explanation with examples -Workbook Exercises & Practice Exercises	-students will be able to use conjunctions in sentence. -they can differentiate between a subordinate and coordinate conjunctions -demonstrate the understanding of conjunctions by applying rules and structure.
	Writing skills: Letter WRITING (letter of complaint)	-to know the purpose of writing email -understand the format apply the knowledge in practical life - put the message accurately by following the format	Write a letter to XYZ electricals regarding the complaint against a defective machinery.	Discussion, familiarize the format, sample	-to know the purpose of writing email -understand the format apply the knowledge in practical life - put the message accurately by following the format
December	UNIT-7 CHAPTER-1 Little women	-To promote the reading habits of students. -Enrich the vocabulary of the students -to appreciate the novelty and universality of literature	Based on your experiences, write a diary entry on how being merciful towards others improve our lives.	Brainstorming Collaborative, critical thinking Smart board lecture and discussion method	-To develop critical thinking by analyzing the text -To develop interest in reading and develop their critical skills -To be able to answer comprehensive questions
	UNIT-7 POEM: From	-To enable them grasp the	What thoughts and	Discussion explanation	Students will be able to -

	Abraham Lincoln to his son's teacher	theme and gist of the poem. -Know about poet and literary background -Recite the poem with proper intonation and correct pronunciation - to understand the true essence of education	values did your father share with you? Demonstrate using a graphic story or sketch	Power Point Presentation, RTC	- know more about literary devices used by the poet -appreciate the bonding shared by a teacher and a student -describe the meaning of new words and use them efficiently
	GRAMMAR UNIT 17 SPEECH (Direct and indirect)	-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, requests or command	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, requests or command
	Writing Skill: Descriptive paragraph (place/ event)	-students will be able to: Develop key questions to find out about the place or event -able to write cohesive sentences to create a descriptive paragraph	-Describe your school in 100 words.	Power Point presentation Grammar book exercises	-students will be able to: Develop key questions to find out about the place or event -able to write cohesive sentences to create a descriptive paragraph
January	UNIT-7 Ch-2 Mahatma Gandhi : His fight against injustice	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.	Make a collage of struggles faced by Mahatma Gandhi for freedom and give descriptive paragraph on	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)

			Mahatma Gandh		
	GRAMMAR UNIT 17 SPEECH (Direct and indirect)	-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, requests or command	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, requests or command
	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
	Novel-	-Students will be able to develop the habit of reading -To analyze the plot and the characters -to summarize the story in their own words		Power point presentation, collaborative and critical thinking	-Students will be able to develop the habit of reading -To analyze the plot and the characters -to summarize the story in their own words
February	GRAMMAR UNIT 17 SPEECH (Direct and	-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

	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
	Revision of all the topics	Revision of all the topics		Class tests, practice worksheet	Revision of all the topics

GRADE - VIII

SUBJECT-MATHEMATICS

Book prescribed : Mathematics Made Easy

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
April (20 days)	Ch -1 Rational Numbers	Students will be able to 1.Recall fractions 2.Understand rational numbers and its standard form 3.Add,subtract,multiply and divide rational numbers 4.Compare rational numbers 5.Solve real life problems involving rational numbers	Rational number maze	Activity Based, Student centred and collaborative https://youtu.be/SqTSCVA0Rrs?si=BGzoECaC4JMhpRhe	Students will be able to understand rational numbers and its standard form. They will be able to Add, subtract, multiply and divide rational numbers. They will be able to Compare rational numbers and Solve real life problems involving rational numbers
	CH-8 Linear eqn. in One variable	Students will be able to 1. Recall equations 2. Understand linear equations in one variable and different terms like Variable, constant and coefficient 3. Solve linear equations	Balancing activity using Different color papers	Activity Based, Student centred and collaborative https://youtu.be/yJWSefZmOM8	Students will be able to understand linear equations in one variable and different terms like Variable, constant and coefficient. They will be able to solve linear equations in one variable and apply this in real life problems

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	Ch-3 Squares and square roots	Students will be able to 1. Recall square number 2. Understand properties of square number, squares of rational numbers, square root of numbers 3. Calculate squares and square root of numbers 4. Apply in daily life situations 5. Compare Pythagorean triplet with other triplets 6. Create more Pythagorean triplets Students will be able to 1. Recall Square numbers 2. Understand and calculate Cubes and cube roots 3. Apply Properties of cubes 4. Estimate Cube root of cubic number	Paste different right triangles Using colored paper ,measure the side length and verify Pythagoras Theorem	Activity Based, Student centered and collaborative https://youtu.be/-66ump5h7Vw?si=Rk6m9vw_UCplcWtA	They will be able to calculate squares and square root of numbers and apply in daily life situations. They will be able to compare Pythagorean triplet with other triplets and Create more Pythagorean triplets Students will be able to understand and calculate Cubes and cube roots They will be able to apply properties of cubes and estimate Cube root of cubic number
	Unit 4 - Cubes and Cube Roots		Find the path travelling Through the table of cubic numbers	Activity Based, Student centered and collaborative (Related videos will be shared with the students)	
August (18 days)	Ch – 9 Comparing Quantities	Students will be able to 1. Recall profit and loss 2. Understand percentage increase and percentage	From the given geometric shape find the fraction and percentage of given polynomials	Activity Based, Student centered and collaborative (Related videos will be shared	Students will be able to understand percentage increase and percentage decrease. They will be able to Calculate profit% and

		decrease 3.Calculate profit% and loss%. 4.Apply in daily life situations 5.Compare MP,SP and Discount 6.Recognize different types of taxes 7.Find simple interest, principal, time, rate and amount using required facts. 8. Find compound interest, amount, time, rate and principal using required facts.		with the students) Activity Based, Student centered and collaborative (Related videos will be shared with the students)	loss% and Compare MP,SP and Discount. Students will be able to Recognize different types of taxes They will be able to find simple interest, compound interest, principal, time, rate and amount using required facts
September (20 days including 12 days of Examinations)	Ch – 2 Exponents	Students will be able to 1. Define negative integral exponent of a rational number. 2.Understand term Base and exponent and laws of exponents 3Apply laws of exponents in daily life situations 4.Express numbers in scientific and standard form.	Table showing laws of exponents using paper cutting and pasting	Activity Based, Student centered and collaborative (Related videos will be shared with the students)	Students will be able to define negative integral exponent of a rational number, understand the terms base and exponent and laws of exponents. They will be able to apply laws of exponents in daily life situations and express numbers in scientific and standard form.
October (19 days)	Ch – 6 Algebraic Expressions	Students will be able to 1. Recall rules of linear equations 2.Understand Like terms ,unlike terms ,monomial, binomial, polynomial 3.Recognize degree of polynomial	Verification of identities using paper cutting and pasting	Activity Based, Student centered and collaborative https://youtu.be/LoZM1L2Mtq4?si=f9OJDeiodKhQZA0y	Students will be able to understand Like, unlike terms, monomial, Binomial and polynomial They will be able to recognize degree of polynomial and add ,subtract and multiply algebraic

December (19 days)	Unit 7- Factorisation Ch – 10 Direct and Inverse Variations	Students will be able to 1. Recall term Factors 2. Understand factorization 3. Apply identities in factorization 4. Compute the division of algebraic expressions. Students will be able to 1. Recall ratio and proportion 2. Understand direct and inverse proportions 3. Calculate direct and inverse proportions 4. Apply in real life situations 5. Compare direct and inverse proportions	Factorisation by paper cutting and pasting. Finding direct and inverse variation using graph paper.	Activity Based, Student centered and collaborative https://youtu.be/BkhUyrEBKxw?si=7f1sT1k-HS4tDBay Activity Based, Student centered and collaborative https://youtu.be/FErk385Nps?si=xK9lbqJtkCBcMhL	Students will be able to understand factorization and apply identities in factorization They will be able to compute the division of algebraic expressions. Students will be able to understand direct and inverse Proportions and calculate direct and inverse proportions They will be able to apply in real life Situations and Compare direct and inverse proportions.
January (18 days)	Ch – 17 Introduction to Graphs	Students will be able to 1. Recall Xaxis , Yaxis 2. Draw line graphs 3. Interpret a graph and predict the value of the variable	Draw graphs of temperatures of Delhi and Mumbai of different days in the month of January and compare both	Activity Based, Student centered and collaborative (Related videos will be shared with the students)	Students will be able to draw line graphs. They will be able to interpret a graph and predict the value of the variable . Students will be able to recognise numbers

	Ch – 5 Playing With Numbers	Students will be able to 1. Recall number system 2. Understand mathematical logical reasons in numerical operations 4. Apply in real life situations 5. Compare divisibility rules 6. Explore the number patterns which leads to generalization	Finding different number patterns	Activity Based, Student centered and collaborative (Related videos will be shared with the students)	system and understand the mathematical logical reasons in numerical operations. They will be able to apply in real life situations and compare divisibility rules. They will be able to explore the number patterns which leads to generalization
February (18 days)	Revision of the syllabus of Term-2	Students will be able to solve and justify the given problems.		Worksheets will be given to students. Class tests, quiz and viva will be conducted in the class.	Students will be able to solve and justify the given problems.

Class 8- Social Science
Note: Overall Learning Objectives mapped with Learning

Outcome adapted by CBSE for the course: Resources and Development

Chapter	Topic	Learning Objectives	Learning Outcome
1. An Introduction of Resources	Types of resources	Comprehend the meaning of resources in terms of utility and value	Analyses uneven distribution of natural and human made resources on the earth in order to understand its impact on the country.
		Undertakes research in order to Classify different types of resources like natural, human made and human resource	
	Conserving	Respect and care for all-natural resources Inspire others and self towards sustainable	Justifies judicious use of natural resources in order to

	Resources	use of human, human made and natural resources	maintain developments in all areas
2. Natural Resources	Land	Students will be able: • topography, soil, climate, minerals and availability of water for the land • use pattern and its classification. Analyze the need for the conservation of Land Resource	Justifies judicious use of natural resources in order to maintain developments in all areas
	Soil	Understand the process of soil formation, analyses the causes of soil degradation and construct remediation towards conservation measures.	Analyses uneven distribution of natural and human made resources on the earth in order to understand its impact on the country.
	Water	Locate the climatic zones that are most susceptible to water scarcity through case study and execute problem solving skills by	

3. Natural Vegetation and Wildlife Resources 4. Mineral and Power Resources 5. Agriculture	Natural Vegetation and Wildlife	stipulating methods for conservation of water resources across the globe. : - Enumerate factors for distribution of Natural Vegetation and wildlife. - Construct views on conservation of Natural Vegetation and Wildlife to balance the ecology on planet Earth.	Describes causes of forest fire, landslide, industrial disasters and their risk reduction measures.
	Types of Minerals	Survey the distribution of minerals across the globe and in India, locate the distribution of important minerals, e.g., coal and mineral oil on the world map in order to list countries that are mineral rich or mineral poor. Understand the uses of minerals and their conservation for sustainable development	Locates distribution of important minerals on the world map
	Power Resources	Examines the vital role played by energy in our lives, critically analyses the reasons associated with the environmental pollution in reference to the usage of conventional sources and the benefits associated with the usage of non-conventional sources of energy Critically analyse the factors due to which some countries are known for production of major crops, e.g., wheat, rice, cotton, jute,	Describes major crops, types of farming and agricultural
	Farm System		

		etc., and locate these countries on the world map.	practices in her /his own area / state
6. Agriculture Development	Agricultural Development	Comparative Case studies of the farms in India and USA under various parameters will enable the learner to frame developmental goals in the field of agriculture	Analyses the factors due to which some countries are known for production of major crops and locates these
7. Manufacturing Industries 8. Industries- Compative Studies	Classification of Industries	Categorize different types of industries based on raw materials, size and ownership, examine different factors affecting location of industries, studies industrial System and enlist industrial regions across the world.	countries on the world map. Classifies different types of industries based on raw materials, size and ownership
	Distribution of Major Industries	Understanding Case studies of Iron and Steel and Cotton and Textile Industries will help the learner to develop his analytical and decision-making skills	
9. Human Resources	Density of Population	Identify and recognize the factors affecting distribution of population in different areas of the world	Interprets the world map in order to demonstrate understanding of uneven distribution of population
		Evaluates the impact of Population Change analysis causes and patterns of Population	
		Change globally.	Draws bar diagram in order to show population of different countries /India /states
		Estimates the importance of different Population Composition (age groups) and their contribution the national economy	

Note: Overall Learning Objectives mapped with Learning Outcome adapted by CBSE for the course: Resources and Development

Chapter	Topic	Learning Objectives	Learning Outcome
1. The Constitution of India	Why Does a Country Need a Constitution?	Familiarize with constitutive rules with the help of the case study of Nepal, learn very basic understanding of the significance of these features within the working of democracy	Interprets social and political issues in one's own region with reference to the constitution of India
	The Indian Constitution: Key Features	Develop concerns of diversity, unity, socio-economic reform and Representation, understand the ways in which a balance was created between the then existing concerns and the commitment to transform independent India into a strong and democratic society	Applies the knowledge of the Fundamental Rights to find out about their violation, protection and promotion in a given situation (e.g., Child Rights).
2. Secularism In India	What is Secularism?	Learns the concept of peaceful co-existence where all the religions are same in the eyes of the law	Differentiates between state government and union government in order to compare and contrast their roles /functions /responsibilities /mandate, etc.
	Why is it Important to Separate religion from the State?	Avoids conflicts of interests and feeling of a subject by accepting that the two have different identities	
	What is Indian	Sense of equality prevails and all religions enjoy equal freedom	
3. A Need of a Parliament.	Secularism?	Understand the relation between the ideas of participation in decision-making and the need for all democratic governments to have the consent of	Describes the process of election to the Lok Sabha.
	Why should People Decide?	their citizens.	

	The Role of the Parliament	Enables citizens of India to participate in decision making and control the government	Locates one's own constituency on parliamentary constituency map of State / UT and names local MP.
	Who are the People in Parliament?	Appreciates the reflection of society in the Parliament in form of presence of people from different backgrounds	
4. Understanding Laws	Do Laws Apply to All? How Do New Laws	Understand the in-discriminatory basis of law and it integral value in the society	Describes the process of making a law. (e.g., domestic violence act, RTI act, RTE act)
	Come About?	Become sensitive to the problems faced by people	
	Unpopular and Controversial Laws	Raise voice against the repressive laws framed by the Parliament and get it corrected	
5. The Indian Judiciary	What is the Role of the Judiciary?	Appreciate the significant role played by Indian judiciary in upholding the principles enshrined in the Constitution	Describes the functioning of the judicial system in India by citing some landmark cases
	What is an Independent Judiciary?	Attach significance to the judicial system in upholding the rule of law	
	What is the Structure of Courts in India? What are the	Explain three different levels of courts in our country and only one apex court.	
	Different Branches of the Legal System?	Understand civil law and criminal laws with the help of case studies	
	Does Everyone Have Access to the Courts?	Recognize greatly simplified justice system and access to justice by common people through public interest litigation	

6. The Indian Criminal Justice System	Role of the Police in Investigating a Crime	Understand that the role played by the police is to arrest the person, every individual charged of a crime has to be given a fair trial	Demonstrates how to file a First Information Report (FIR)
	Role of the Public Prosecutor and a Judge	Examines the Prosecutor's role in conducting the prosecution on behalf of the State and the role of the judge in conducting the trial impartially in an open court	
	Fair Trial	Ensures execution of all legal procedures during the trial	
7. Understanding and Tackling Marginalization	Who are Adivasis	Identify various Indian communities the original inhabitant who lived in close association with forests. Learn about their beliefs and traditions	Analyses the causes and consequences of marginalisation faced by disadvantaged sections of one's own region
	Stereotyping and development	Break the stereotypical semblance about their looks, costumes, dances etc.Cement the interconnectedness between the economic and social dimensions of the tribal life	
	Minorities and Marginalization	Address marginalization of minorities through various struggles	
	Invoking Fundamental Rights	Acquire understanding about Article 15 that has been used by Dalits to seek equality	Identifies the role of government in providing public facilities such as water, sanitation, road, electricity etc., in order to recognise their availability and the tasks that government performs.
	Laws for the Marginalized	Promote Social Justice through understanding of specific laws and policies	
	Protecting the Rights of Dalits and Adivasis	Raise voice against the practice of ostracism by the powerful castes in the village	

	Adivasi Demands and the 1989 Act	Understand the act of 1989 and take seriously the ill treatment and humiliation Dalits and tribal groups	
8. Public Facilities	Water and the People of Chennai	Diagnose importance of equal availability, affordability and quality of water for all through case study of Chennai	Identifies the role of government in providing public facilities such as water, sanitation, road, electricity etc., in order to recognise their availability and the tasks that government performs.
	Water as Part of the Fundamental Right to Life	Identify the right to water as being a part of the Right to Life under Article 21 or universal access to water	
	Public Facilities	Recognize crucial role of the government in providing public facilities	
	In Search of Alternatives	Critically analyze the situation and find out the most suitable options to exterminate the problem	
9. Law and Social Justice	Bhopal gas tragedy - What is a Worker's Worth	Compare between UC's safety system in Bhopal and its other plant in the US in order to analyze the causes of the tragedy and to combat injustice against the workers	Describes the role of government in regulating economic activities.
	Enforcement of Safety Laws	Learns about the right to Life guaranteed under Article 21 of the Constitution and need for strict adherence	
	New Laws to Protect the Environment	Demand stronger laws protecting workers' interests and environment etc.	

Note: Overall Learning Objectives mapped with Learning Outcome adapted by CBSE for the course: Resources and Development

Chapter	Topic	Learning Objectives	Learning Outcome
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Understanding Modern 1. History	How Important are Dates?	Understand the notions of the time, associate history with a string of dates, give some coherence to each era of history	Explains the importance of dates in history and why do we divide history into different periods.
	How do We Know? East India Company Comes East	Learns about divisions of history into Hindu, Muslim and British based on administrative records. Acquires knowledge about the practice of surveying under colonial rule Describes the emergence of the British on the political horizon of India, initially it came as a trading company	
Colonisation of India-From 2. Trade to Territory	Company Rule Expands	analyze the process of annexation of Indian states by the East India Company using various strategies	Explains the reasons how the English East India company became the most dominant power
	Setting up a New Administration	Recognize coming up of three presidencies, setting up of new judicial system, massive increase military strength	
	The Company Becomes the Diwan	Analyses critically the company's strategy to become the chief financial administrator of the territory under its control	Examines the differences in the colonial agrarian policies in different regions of the country, in order to explain the different impact of these policies on different regions
3. Ruling the Rural Areas	Crops for Europe	Learns about the strategy to yield revenue from countryside British expanded the cultivation of opium and indigo	
	The "Blue Rebellion" and After	Raises questions about Rebellion by riots in Bengal and repressive measures adopted by the British.	Describes the forms of different tribal societies in the 19th century, and their relationship of
4. Tribals, Communities and colonialism	How Did Tribal Groups Live? How Did Colonial rule affect tribal	Explain the disappearing tribal livelihoods, threat to life, danger to jhum cultivation Understand the breaking of tribal social order and traditional functions due to forest laws	

	Lives?		each of these tribal societies with the environment.
	A Closer Look	Evaluate the rebellion by the tribal groups in different parts of the country against the changes in laws	Explains the policies of the colonial administration towards the tribal communities
5. The Uprising of 1857		Examine the reasons for the loss of the powers of Nawabs, unrest of sepoys and peasants, introduction of religious and cultural reforms	Explain the origin, nature and spread of the revolt of 1857 in order to infer the lessons learned from it
	Policies and the People Through the Eyes of the People -	Learn about the biggest collective uprising against the British rule in the nineteenth century – mutiny 1857	
	A Mutiny Becomes a Popular Rebellion		
	The Company Fights Back	Describe the repressive measure used by the British against the Indians	
	Aftermath	Observer transfer of the powers of the East India Company to the British Crown	
Colonialism. Urbanisation 6. and De urbanisation 7. Crafts and Industries	Indian Textiles and the World Market	Study about the exquisite Indian craftsmanship famous all over the world	Analyses the reasons and context of decline of pre-existing urban centres and handicraft industries, and the development of new urban centres and industries in India during the colonial period.
	The sword of Tipu Sultan and Wootz steel	Learns about the Indian Wootz steel and reasons of setting up of Indian steel industry	
Education and the British 8. Rule	How the British saw Education	Comprehend the strategic moves of the British to “civilize the natives” they changed the education policy to create “good subjects”	Traces the historical developments in the education system in order to explain the

13. India After Independence	A New and Divided	Understand the challenges in making India a	Analyses the significant developments in the process of nation building
	Nation	nation-state	
	A Constitution is	Learn significance of the lengthiest constitution	
	Written	of new India	
	How were States to be Formed?	Attach significance to the linguistic basis of the formation of states	
	Planning for	Understand the setting up of a Planning Commission to help design and execute	
	Development	suitable policies for economic development	
	The Nation, Sixty Years	Feel proud of the continual achievements of	
	On	India like still united and still democratic.	

GRADE - VIII
SUBJECT- ARTIFICIAL INTELLIGENCE

Book Prescribed :

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
April- May	Ch 1 Google Apps Ch 2 Animation in Krita	To know and understand about • Google apps • Animation in Krita, • Components and layers of Krita	Creating ppt on Google Slide	Interactive, demonstrative and Practical Method	Students will be able to know and understand about • Google apps • Animation in Krita, • Components and layers of Krita
May -July	Ch 3 Trending Technology	To know and understand about • Artificial Intelligence • Machine Learning, • IOT • AR • VR • Robotics • Data Science etc	AI Based Activity “ Emoji Scavenger Hunt”	Interactive, demonstrative and Practical Method	Students will be able to know and understand about • Artificial Intelligence • Machine Learning, • IOT • AR • VR • Robotics • Data Science etc
August - October	Ch 4 Algorithmic Intelligence Ch 5 Advance MakeCode Arcade	To know and understand about • Multiple Conditions in a Program • Loops in a Program • Control Structures • Arrays • Functions etc	Do Activity given at Pg. No. 80	Interactive, demonstrative and Practical Method	Students will be able to know and understand about • Multiple Conditions in a Program • Loops in a Program • Control Structures • Arrays • Functions etc
November	Ch 6 Looping Statements in Python	To know and understand about • The for Statement • Jump Statements	Do Activity given at Pg. No. 93	Interactive, demonstrative and Practical Method	Students will be able to know and understand about • The for Statement

	Ch 7 Functions in Pyhon	• While Statement • Features of Function • Creation of Function	Do Activity given at Pg. No. 102		• Jump Statements • While Statement • Features of Function • Creation of Function
December	Ch 7 Functions in Pyhon continued.... Ch 8 Parts of Robotics	To know and understand about • Difference between Humans and Robots • Essential Parts of Robots	Do Activity given at Pg. No. 111	Interactive, demonstrative and Practical Method	Students will be able to know and understand about • Difference between Humans and Robots • Essential Parts of Robots
January	Ch 9 Domains of AI Ch 10 SDGs	To know and understand about • Domains of AI • Real life Applications of Different Domains of AI • SDGs • Role of AI to Achieve SDGs	Do Activity given at Pg. No. 121	Interactive, demonstrative and Practical Method	Students will be able to know and understand about • Domains of AI • Real life Applications of Different Domains of AI • SDGs • Role of AI to AchieveSDGs
February	Possibilities with AI	To know and understand about • Proffered Skills to get a Job in AI Field • Organizations Providing AI Jobs • Career Opportunities in AI	Do Activity given at Pg. No. 140	Interactive, demonstrative and Practical Method	Students will be able to know and understand about • Proffered Skills to get a Job in AI Field • Organizations Providing AI Jobs Career Opportunities in AI

SUBJECT- FRENCH

TEXT BOOK : APPRENONS LE FRANÇAIS-4

MONTH	TOPIC	OBJECTIVES	ART INTEGRATION/ EXPERIENTIAL LEARNING	METHODOLOGY OF TEACHING / ART OF TEACHING	LEARNING OUTCOME

APRIL	Lesson-0 La culture et la civilisation de la france	-to learn culture and civilization of france.	-four groups will speak about francophonic countries.	-through videos,map,oral discussion and explanation.	Students will be able to -learn about france,it's culture. -learn about the french speaking countries.
	Lesson-1 Un mail de mon cousin	-to make phone calls. -to form phrases. -to communicate.	-role play for phone calls.	-through videos,oral discussion,pronunciation.	Students will be be able to -learn SMS language. -how to draft a mail.
	Lesson-2 La biodiversite	-to use an identity card. -describe a person. -read and understand in french.	- learn the placement of adjectives. -learn few adjectives which come before nouns.	-learn how to design an i-card with given material.	Students will be able to -use the adjective"tout" -learn position of adjectives.
	Leçon-3 Coco Chanel	-to tell/narrate the things -to reply negatively -to narrate a past event	-to revise three forms of interrogation	-to draw boxes around the negative expressions	Students will be able to: -tell/narrate the things -reply negatively Students will be able to:
MAY					

JULY	Revision of Periodic Test 1		-dictation on past participles will be given to students	so as to remember them	-narrate a past event
	Lecon-4 La France Miniature	-to narrate a story in past tense -to speak about a travel	-past tense with etre will be taught	-students will be quizzed on the past participles of verbs	Students will be able to: -narrate a story in past tense -speak about a travel
AUGUST	Lecon-5 Une experience incroyable			-students will be tested on the DR and MRS VANDERTRAMP	Students will be able to: -know the importance of a lecture -make opposites
	Decouvrons -1 Decouvrons-2 Revision of Term 1 Exam	-to know the importance of a lecture -to make opposites	-students will be asked to describe their days with past tense		Students will be able to: -make a recipe -speak of food
SEPTEMBER	Lecon-6 La lecture et les jeunes	-to make a recipe -to speak of food	-to discuss french food		Students will be able to: -speak about future -speak about french
				-to learn pronominal	

OCTOBER	Lecon-7 Les tendances alimentaires en France	-to speak about future To speak about french festivals -to do the reservation	-to learn future tense	verbs	festivals -do the reservations
	Lecon-8 Le demenagement a Biarritz	-to leave a message -to invite someone -to accept or refuse an invitation		-to make a simple french dish,to take recipe from internet	Students will be able to: -leave a message -invite someone -accept or refuse an invitation
NOVEMBER	Periodic Test -2 Revision		-to write invitation,e-mail	-students will be quizzed on french festivals	Students will be able to: -speak about time -read and understand an article
	Lecon-9 Une carte postale et des invitations	-to speak about time -to read and understand an article			
DECEMBER	Decouvrons -3				
	Lecon-10 Le rechauffement climatique		-to describe the weather of the city	-to write messages to each other	
	Decouvrons-4 Revision of Annual				

JANUARY	exam				
				-to describe weather using the vocabulary given on page no:107	
FEBRUARY					

SUBJECT - ART

Books prescribed: - Creativity and Beyond

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of Teaching /Art of	Learning Outcome
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				Teaching	
April	1. Understanding Perspective 2. Creating High Contrast Shadows 3. Still Life Study with different media	To introduce with different shapes and color application techniques.	Art integrated activity using different geometrical shapes.	Demonstrative and Practical method.	Students will be able to know about different elements of art and the principles to use these elements.
May	1. Still life Study 2. Buildings	To develop the creative and aesthetical skills of the students.	Art integrated activity using different shapes.	Demonstrative and Practical method.	Students will be able to know about the different elements of art and the principles to use these elements.
July	1. Drawing and Colouring Monuments 2. Vehicles 3. Nature Study	To develop the creative skills.	Art integrated activity using different geometrical shapes.	Demonstrative and Practical method.	Students will be able to develop their creative and aesthetical sensibilities.
August	1. Nature Study 2. Landscape and Composition	To develop the creative and aesthetical skills of the students.	Art integrated activity using different geometrical shapes.	Demonstrative and Practical method.	Students will be able to develop their creative and aesthetical sensibilities.
September	1. Human Form Study 2. Drawing People in Action 3. Composition	To develop the creative and aesthetical skills of the students.	Art integrated activity using different geometrical shapes.	Demonstrative and Practical method.	Students will be able to develop their creative and aesthetical sensibilities.
October	1. Animation and Story telling 2. Folk Art – Patachitra	To develop the creative and aesthetical skills of the students.	Art integrated activity using different geometrical shapes.	Demonstrative and Practical method.	Students will be able to develop their creative and aesthetical sensibilities.
November	1. Traditional	To develop the creative and	Art integrated activity	Demonstrative and	Students will be able to

	Art- Mehendi 2. Traditional Art – Tattoo	aesthetical skills of the students.	using different geometrical shapes.	Practical method.	develop their creative and aesthetical sensibilities.
December	1. Composition with Clay Tiles	To develop the creative and aesthetical skills of the students.	Art integrated activity using different geometrical shapes.	Demonstrative and Practical method.	Students will be able to develop their creative and aesthetical sensibilities.
January	1. Working on a logo Type 2. Art and Design- Working with type	To develop the creative and aesthetical skills of the students.	Art integrated activity using different geometrical shapes.	Demonstrative and Practical method.	Students will be able to develop their creative and aesthetical sensibilities.
February	1. Madhubani Painting 2. Landscape	To develop the creative and aesthetical skills of the students.	Art integrated activity using different geometrical shapes.	Demonstrative and Practical method.	Students will be able to develop their creative and aesthetical sensibilities.

GRADE –Viii
SUBJECT - GK

Book prescribed : Knowledge Trek

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
April	Our Environment	To make students aware about the our environmental conservation .	Write some point about active volcanoes .	Discussion Method with digital support	Students will learn about the different knowledge like life of desert ,marsupials.
May	India and the world	To make students aware about the world	Write about some point about our fundamental rights.	Explanation with the help of digital support	Students will learn about different knowledge of india .
July	Science &Technology	To make students aware about scientific research .	Write about pioneering scientists .	Topic would be discussed using web support	Students will learn about our technology .
August	Art and culture	To make students aware about the indian culture	Write about our festivals and haute couture.	Topic will be discussed and explained using web support	Students will learn about different traditional theatre.

September	Sports&Entertainment	To make students aware about different sports		Discussion Method with digital support	Students will learn importance of games in life .
October	Entertainment	To make students aware about different international tournament .	Write about famous	Topic will be discussed and explained using web support	Students will learn about the timeless art& classical music of india
November	Language & Literature	To make students aware about different language and lit .	Write about some hindi poets and literary awards.	Discussion Method with digital support	Students will learn about autobiography ,biopic.
December	Language & Literature	To make students aware about the different languages spoken	Write about spiritual gurus and their famous writings	Topic will be discussed and explained using web support	Students will learn about poets and writers of the world
January	Life skill/smart mind .	Moral value skills		Topic will be discussed and explained using web support	Students will learn about moral values and word puzzle .
February	Revision			Discussion Method with digital support	Students will revise.

GRADE - VIII
SUBJECT- SCIENCE

TEXT BOOK : SCIENCE (NCERT)
PRACTICE BOOK : PRACTICE WORKBOOK SCIENCE (S. CHAND)

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
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April	Ch-1 Crop production and management	Students will be able 1. Compare the advantages of three major tools used for tilling and ploughing to justify the variety of agricultural practices 2. Distinguish between manure and fertilisers to identify ways in which nutrients in soil is replenished 3. Distinguish between the practices of large scale and smallscale storage of food in order to conclude that stored grains need protection from pests and microorganisms.	Integrated activity Demonstration of all steps of agricultural implements using a big box of soil. Roleplay as farmers where students depicted various methods of irrigating their field.	ICT Based Teaching https://youtu.be/9LRpWtzjGaU?feature=shared	Students will be able to Understand the basic concepts of crop production, including the various steps involved in it such as soil preparation, sowing, watering, manuring, and harvesting. Understand the impact of agriculture on the environment and the importance of sustainable farming practices to preserve natural resources and biodiversity.
	Ch-2 Microorganisms friend or foe	Students will be able 1. Differentiate between microorganisms and viruses to establish that viruses reproduce only in the host body. Recall four major categories of microorganisms (bacteria, fungi, protozoa,	Art integrated activity Students will observe the different slides of microbes under a compound microscope in practical lab.	Activity Based Teaching https://youtu.be/9JW63U2mzqo?feature=shared https://youtu.be/Atx1P2EkiQ?feature=shared	Students will be able to Identify different types of microorganisms (both unicellular and multicellular) Asks questions and lead to investigations like how do vegetables or food items get spoiled. Investigate the use of salt and sugar in preserving Pickles and jams.

		algae) - List examples of diseases in humans, plants and animal caused by microorganisms in order to explain the harmful effects of microorganisms. - List various methods of preserving food in order to demonstrate the restriction of growth of microorganism.			
May	Ch-3 Coal and petroleum	Students will be able - Classify natural resources based on their ability to replenish in order to distinguish between inexhaustible and exhaustible natural resources. - Classify different constituents of petroleum according to exhaustible and inexhaustible natural resources, etc. their use in daily life in order to describe various products besides fuel of petroleum that	Integrated activity Model making on the formation of coal. Classroom debate on the impact of using fossil fuels.	ICT Based Teaching https://youtu.be/XTceTGBa540?feature=shared https://youtu.be/8YHsxXEVB1M?feature=shared	Students will be able To Identify and classify materials Inexhaustible and Exhaustible Natural Resources on the basis of their properties and limits. Apply learning of scientific concepts in day to day life using appropriate ways for conserving energy resources.

		there is a large number of products obtained from petroleum other than fuel.			
July	Ch-4 Combustion and flame	Students will be able to 1. Differentiate between the type of combustion taking place in gas stove, burning of phosphorus and bursting of firecrackers to assess rapid combustion, spontaneous combustion and explosion. 2. Explain the process of combustion in order to describe the role of fuel and oxygen in the process as necessary conditions for combustion to take place. 3. Explain the different parts of flame in order to explain why goldsmiths blow the outermost zone of a flame to melt gold and silver.	Integrated activity Observing a burning candle and tell its different parts. Conduct experiments to burn different substances (e.g., paper, wood, plastic) and observe the characteristics of combustion such as flame color, smoke production, and residue left behind.	ICT based teaching https://youtu.be/Pm0sXIW6UFo?feature=shared	Students will be able to Define combustion as a chemical process in which a substance reacts with oxygen to produce heat and light. Recognize examples of combustion in everyday life, such as burning of fuels like wood, coal, and gas. Learn safety measures related to combustion, such as not playing with fire, handling flammable materials responsibly, and using fire extinguishers correctly. Discuss the environmental impact of combustion, including air pollution and the release of greenhouse gases like carbon dioxide.

	Ch-5 Conservation of Plants and Animals	Students will be able to: 1. List causes of deforestation to reflect on its rampant existence despite forest being essential to life. List the flora and fauna in surroundings to establish the term used for locally found plants and animals. 2. Explain reforestation to describe ways to reduce it. Explain recycling to describe ways to reduce deforestation.	Integrated activity Give students a virtual visit to a forest/Sanctuary and make a list of different flora and fauna species found there. Research and present case studies on successful conservation projects or initiatives undertaken in India.	ICT based teaching https://youtu.be/aRs84rwftsA?feature=shared	Students will be able to Relate processes and phenomenon with causes, e.g., smog formation with the presence of pollutants in air; deterioration of monuments with acid rain, etc. Develop an awareness of the role of individuals, communities, governments, and international organizations in conservation efforts. Develop critical thinking skills to evaluate the effectiveness and sustainability of conservation measures.
August	Ch-6 Reproduction in animals	Students will be able to: 1. Differentiate between asexual and sexual reproduction in order to list two modes of reproduction 2. Classify animals based on their ability to give birth or lay eggs. 3. Describe the process of fertilization in order to explain zygote formation.	Integrated activity Provide specimens or models of reproductive organs of animals and ask them to identify the various parts. Students will be shown videos or images depicting parental care behaviors in animals, such as incubation, feeding, and protection of offspring.	ICT based teaching https://youtu.be/3rQU-mH8pjk?feature=shared	Students will be able to: Understand the concept of reproduction in animals, including its significance for the survival and continuation of species. Understand the processes of fertilization, embryonic development, and birth in sexually reproducing animals. Gain knowledge about the life cycles of different animals, including the stages of growth, development, and reproduction.
	Ch-7 Reaching the age of adolescence	Students will be able to: 1. Enumerate different variations that take place in body at	Integrated Activity Role play in class depicting sudden mood swings and heightened	ICT based teaching: https://youtu.be/d9qNfe9HG9o?feature=shared	Students will be able to: understand the physical changes that occur during adolescence, including growth spurts, development of secondary sexual characteristics, and hormonal

		puberty to explain the effect of adolescence on changing human body. - Define adolescence and adolescent age in order to explain changes at puberty - Describe menstruation, menarche and menopause to explain the reproductive phases of life in humans - Identify the harmful consequences of taking drugs in order to explain why drugs are not solution to confused and insecure feeling during adolescence	emotions simulating the hormonal fluctuations of adolescence. Students will be provided a resource book containing various methods to maintain proper hygiene.	https://youtu.be/Nw2yHKxrj7o?feature=shared	changes. Learn about the influence of peer pressure, social media, and cultural norms on behavior and decision-making during adolescence acquire knowledge about reproductive health, contraception, and sexually transmitted infections (STIs), and understand the importance of responsible sexual behavior..
October	Ch-8 Force and pressure	Students will be able to: - Provide examples where force is being applied in order to explain that two objects must interact for a force to come into play. - Discover the direction of pressure applied by liquid when put in a	Integrated activity Students will be provided different objects of different weights and a spring scale, they will measure the weight with the scale. Letting go of an inflating balloon in the classroom and tracing its motion explaining how did it happen.	ICT based learning https://youtu.be/3OKW69TViHI?feature=shared https://youtu.be/IJWEtCRWGvI?feature=shared	Students will be able to: Gain knowledge about practical applications of force and pressure in daily life, such as in machines, structures, and sports. Develop problem-solving skills by applying the principles of force and pressure to analyze and solve real-world problems. Cultivate an appreciation for the role of force and pressure in shaping the physical world and its impact on human activities and technologies.

		container to conclude that liquids exert pressure on the walls of the container 3. Enumerate the instances where the force can cause change in shape and size, direction and state of motion.	Students will be asked to make structures with cards/matchsticks and then finding out how much pressure can their structure withstand.		
	Ch-9 Friction	Students will be able to: 1. Analyse situations where resistance is felt while applying force to move a body in order to explain friction force where acts in opposite direction. 2. Provide advantages and disadvantages of friction in order to justify friction as necessary evil. 3. Differentiate between rolling friction and sliding friction in order to explain the use of different friction reducing strategies 4. Identify factors causing friction in order to come up with formulate	Integrated activity Students will touch and observe different surfaces and compare the amount of friction. Rubbing both hands vigorously and notice the change in temperature. Class discussion on role of friction and lubricants.	ICT based learning: https://youtu.be/USaRSHNCtcg?feature=shared https://youtu.be/RMcf2f4f4aw?feature=shared	Students will be able to: Understand the concept of friction as a force that opposes motion between surfaces in contact. Develop problem-solving skills by applying the principles of friction to analyze and solve real-world problems. Cultivate an appreciation for the importance of friction in preventing accidents and injuries, such as in vehicle braking systems and shoe soles.

		strategies to reduce friction.			
November	Ch-10 Sound	Students will be able to: 1. Differentiate between frequency and amplitude in order to describe factors responsible for loudness and pitch of the sound. 2. Provide examples where sound travels from one point to another in order to establish that sound needs a medium to propagate 3. Describe the structure and function of an eardrum in order to explain how humans hear sound	Integrated activity Demonstration in classroom about how sound is a longitudinal wave using slinky Activity of making paper cups and thread phones	ICT based teaching https://youtu.be/X5iUWGipy2s?feature=shared https://youtu.be/Cu7DypB1_xU?feature=shared	Students will be able to: Differentiate between longitudinal and transverse waves, specifically in the context of sound waves being longitudinal. Describe the process by which sound waves are converted into electrical signals in the brain. Conduct simple experiments to observe sound vibrations (e.g., using tuning forks, rubber bands, or homemade instruments).
	Ch-11 Chemical effects of electric current	Students will be able to: 1. Distinguish between good and poor conductors of electricity in order to explain that various materials can conduct electricity under certain	Integrated activity Experimenting with various materials to check which material are conductors and which are insulators. Experiment with	ICT based teaching https://youtu.be/5ctmTIMNItM?feature=shared https://youtu.be/ZM6DIUGzBgw?feature=shared	Students will be able to: Explain the chemical effects of electric current, such as electrolysis. Demonstrate experiments to show the chemical effects of electric current, such as the electrolysis of water to produce hydrogen and oxygen gases. Emphasize the importance of safety measures

		conditions. 2. Describe the process of electroplating in order to explain the application of chemical effects of electricity on metals	different solutions like lemon water, Dil HCL solution etc to see whether they conduct electricity or not.	ure=shared	while conducting experiments involving electricity and chemical reactions.
December	Ch-12 Some natural phenomena	Students will be able to: 1. Identify and explain seismic zones around earth to explain why some areas are more affected by earthquakes than others. 2. Examine the working of electroscope to detect if an object is charged or not in order to apply the concept of similar charge objects repel each other 3. Predict how lightning travels from the cloud to the ground in order to describe the measures that must be taken during lightning.	Integrated activity Mock drill on what to do during earthquake. Making model of a volcano using clay soda and vinegar.	ICT based teaching https://youtu.be/tKVadXBlyLA?si=1TuiHjoPcPIUeTON https://youtu.be/tTJMql1v8IM?si=RrTUceubTED78KjH	Students will be able to: Explain how lightning is formed and the science behind it (electric charges, discharge, and lightning). Explain how cyclones are formed, including the role of wind, pressure, and temperature. Analyze the impact of these natural phenomena on human life and property. Discuss the importance of disaster preparedness and management, including early warning systems and community awareness programs.

	Ch-13 Light	Students will be able to: 1. Distinguish between reflection from a rough and a smooth reflecting surface in order to differentiate between diffused and regular reflection. 2. Conclude the law of reflection and represent it by drawing a ray diagram identifying incident ray, reflected ray and the normal 3. Establish that light can reflect multiple time with a set of mirrors by constructing a kaleidoscope. 4. Describe the braille system in order to explain how people with visual impairment manage to read and write.	Integrated activity Splitting of light through prism in a dark room. Students will be provided various objects like paper, glass, key, bottle, etc. They will then asked which objects absorb light and which reflect. Showing students a series of optical illusions and discuss how our perception of light and shapes can be deceiving. Hence encouraging them to create their own optical illusions using paper, markers, and other simple materials.	ICT based teaching https://youtu.be/TnBNO6QypjM?feature=shared https://youtu.be/d7yTlp4gBTI?feature=shared	Students will be able to: Grasp the fundamental properties of light, such as its ability to travel in straight lines, its speed, and its ability to be reflected, refracted, and absorbed by different materials. Students should develop their skills in scientific inquiry by designing and conducting experiments related to light, making observations, collecting data, and drawing conclusions based on evidence.
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