

MONTH	CHAPTER	EXPECTED LEARNING OUTCOMES	PEDAGOGICAL APPROACH (TEACHING METHODS/ STRATEGIES)	ASSESSMENT TOOLS	RUBRICS	ART INTEGRATION	ICT INTEGRATION
APRIL	Term-1 1-About myself	Students will understand about myself.	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Paste family photograph 4.Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Draw or paste your likes.	Animated video based on myself
	2-My Body	Students will understand about body parts and their functions	Constructive Inquiry based Approach	1. Worksheet 2. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Draw body parts	Animated video based on body parts, song based on body parts
	3-Sense organs	Students will understand about sense organs and their functions.	Constructive Inquiry based Approach	1. Worksheet 2. Home assignment (Holidays homework)	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Draw sense organs Sensorial activity	Animated video based on sense organs, song based on sense organs.
JULY	4 - Looking after My Body	Students will understand the importance of our body and its parts and good habits to stay healthy.	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1. Relevance to content 2. Neatness 3. Clarity of thoughts	Activities based on indoor and outdoor games	Animated video based on good habits
	5-The clothes we wear	Students will understand that clothes protect us from heat and cold. We wear different types of clothes according to the seasons.	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1. Relevance to content 2. Neatness 3. Clarity of thoughts	Draw or paste the pictures of different types of clothes we wear	Animated video based on clothes we wear.

	6-Food we eat	Students will understand the importance of food and its varieties	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Discuss different types of meal. & draw your favourite food	Animates video based on healthy food.
AUGUST	7-Safety Rules	Students will understand the importance of safety rules and ways by which they can avoid accidents and keep themselves safe.	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Paste or draw any 5 things that are not safe to play.	Animated video based on safety rules.
	TERM 2 1-My Family	Students will understand importance of family and its types	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Paste the photographs of family members and make a family tree.	Animated video based on types families
	FIRST PERIODIC ASSESSMENT						
SEPTEMBER	2.We help one another	Students will understand importance of helping each other	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Make a list of your family members and write the dates of their special days	Animated video based on helping one another
	3.We need shelter	Students will understand the importance of shelter, types of houses and roofs	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Read the names of special houses and colour them	Animated video based on shelter and its types
	4-Rooms in a house	Students will understand the different kinds of rooms and their uses.	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Poem/Story based on types of room.	Animated video based on different types of room

MID TERM ASSESSMENT							
OCTOBER	5- Our neighbourhood	Students will understand importance of neighborhood and the people who lives in it are called neighbors.	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation		Visit to school campus
	6-My School	Students will understand the importance of school and classroom, things which are used and the rooms in a school	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation		Visit to school campus
	7-People who help us	Students will understand the about our helpers and their work.	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Paste the pictures of any 5 helpers	Animated video based on helpers
NOVEMBER	8.Festivals	Students will understand the about festivals	Constructive Inquiry based Approach	1.Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Draw the pictures of your favorite festival. Make greeting cards for Diwali and Christmas	Animated video based on festivals
SECOND PERIODIC ASSESSMENT							
DECEMBER	1.Good manners and habits	Students will understand about habits and manners	Constructive Inquiry based Approach	1. Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Draw the pictures of good habits	Animated video based on good habits and manners
	2.Travelling is fun	Students will understand the different means of transport	Constructive Inquiry based Approach	1. Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Draw different pictures of different modes of transport Visit to school bus stop	Animated video based on different modes of transport

DEPARTMENT OF SCIENCE

	3.The world of plants	Students will understand different parts of plants and their importance	Constructive Inquiry based Approach	1. Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Nature walk Draw different parts of plant Paste different leaves	Animated video based on plant around us
JANURARY 27	4-The World of Animals	Students will understand about the different species of animals and the places where they are found	Constructive Inquiry based Approach	1. Worksheet 2. Portfolio. 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Draw and write the names of the animal and match to their homes.	Show video based on animals
	5-All about Water	Students will understand the importance of water, sources and ways to save water	Collaborative approach	1. Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity 4.Presentation	Color the vessels used to store water.	Animated video based on sources of water.
	6-Upinthe sky	Knowing about The Sun, Moon, sky, clouds	Constructivist, Collaborative approach	1. Worksheet 2. Portfolio 3. Home assignment	1.Relevance to content 2. Neatness 3.Creativity	Draw and color the rainbow	Animated video based on sky
FEB. 27	7-Earth Activity	Students will know about the natural things present on earth like mountains, forest, plains, hills, desert	Constructivist, Inquiry based approach	1. Worksheet 2. Portfolio 3. Home assignment	1. Relevance to content 2.Neatness	Role play	Animated video based on Earth and types of land
	8- Weather Activity	Students will understand about the change in weather and seasons affect our life in the way we dress, things we do and food we eat.	Constructivist, Inquiry based approach	1.Worksheet 2. Portfolio 3. Home assignment	1. Relevance to content 1.Neatness	Role play	Animated video based on types of weather
Revision							
ANNUAL ASSESSMENT							
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CLASS: II

Session – 2026-27

MONTH	CHAPTER	EXPECTED LEARNING OUTCOMES	PEDAGOGICAL APPROACH (TEACHING METHODS/ STRATEGIES)	ASSESSMENT TOOLS	RUBRICS	ART INTEGRATION	ICT INTEGRATION
APRIL	1.Myself	Students will understand all about myself	Constructivist, inquiry based	Worksheet, Hands on activity	Approach Meeting Exceeding	Make a name tag	Digital learning
	2.Human Body	Students will understand how our body part help us, our sense organs and growing older	Collaborative approach, team work, games, quizzes	Worksheet	Approach Meeting exceeding	Visit to a bio lab	Video on human body
JULY	3.My Family	Students will understand about the importance of their family.	Interactive and Inquiry based	Worksheet,	Approach, relevance, clarity, Neatness.	Draw and paste a picture of your family.	Video on family
	4.Food We Eat	Student will understand food groups, vegetarian and non-vegetarian, meals, water, golden food Habits	Constructivist, Integrative, inquiry based	Worksheet Class test	Approach meeting exceeding	Visit to vegetable garden, picnic spot food of Nagaland	Video on healthy and unhealthy food
AUGUST	5.Clothes We Wear	Types of clothes, from cotton fiber to clothes	Constructivist, Integrative, inquiry based	worksheet		Demonstration.	Video on fibre and fabrics
	FIRST PERIODIC ASSESSMENT						

SEPTEMBER	6.We Need Shelter	Students will understand kinds of houses, people who make our house	Constructivist, integrative, inquiry based	Worksheet Class test	Approach Meeting Exceeding	Draw different type of houses.	Video on Kinds Of Houses
	7.Keeping Healthy	Importance of Food for health	Constructivist, integrative, inquiry based	Worksheet	Approach Meeting Exceeding	Discussion based on values and life skills	Video on healthy habits
	8.Safety and first aid	Students will understand about safety on road, school, vehicle	Constructivist, collaborative, Integrative	Hands on activity	Relevance to topic, sequence, oral presentation	Prepare a poster on road safety. Find out about different types of road- safety signs and include them in your poster	Video on traffic rules
MID TERM ASSESSMENT							
OCTOBER	9.Know your manners	Students will understand that manners make a good impression.	Constructive Integrative approach	Puzzles worksheet	Relevance to topic, sequence, oral presentation	Role play	
	11.Neighborhood	Students will understand about neighbor and quality of good neighbor.	Constructive Integrative approach	Puzzle worksheet	Approach meeting Exceeding	drawing	Digital learning
NOVEMBER	12.We need them	Students will learn about people who help us, people who care for us, and people who entertain us.	Constructive integrative	Worksheet	Approach meeting Exceeding	Draw a picture people who help you	

	13. Our festivals	Students will learn about national festivals and harvest festivals.	Constructive integrative approach story telling	Worksheet home assignment	Concept Chart, Group discussion	Drawing and pictures related to festival.	Videos on festivals
	14 Travel and communicate	Types of communication and students will learn about travelling.	Constructive integrative approach		Draw your own journey	Telephone game	Video travelling, world and country
	SECOND PERIODIC ASSESSMENT						
DECEMBER	15. Directions and time	Students will understand about direction, time (hours, minutes and seconds, years, months, weeks)	Constructive integrative	demonstration	Approach Meeting Exceeding	Story based on direction and time Clock craft	Video based on topic
	16. Weathers and seasons	Students will understand about weather and seasons (summer, winter And spring).	Constructive, Integrative approach	Worksheets, Activities	Relevance to topic, sequence, oral presentation	Draw and color different types of seasons	Video
	17. The world of plants	Students will understand about the use of plants.	Constructive, Integrative approach	Concept Chart, Group discussion	Relevance to topic, sequence, oral presentation	Nature walk, visit to a garden	Video on plants
JANUARY 27	18. Plants are useful	Students will understand about plants how they are useful for us.		Worksheets, Activities	Relevant concepts, neatness, leadership skills.		Video
	19. The world of animals	Students will learn about the world of animals.	Constructive, Integrative approach	Concept Chart, Group discussion	Thoughts, Sequence	Prepare a chart showing different types of animals	Video

	20. Animals Are Useful	Students will learn about how animals are useful for us.	Constructive, Inquiry based	Concept Chart, Group discussion	Relevance to topic, sequence, oral presentation		Video on animals
FEBRUARY 27	21. The World Around Us.	Students will understand about the earth, The Moon and The Planets	Constructive Inquiry based	Worksheets, Activities	Performance content, coordination, concept	Diagram	Video
	22. Air	Students will learn about air.	Constructive, inquiry based reflective	Concept Chart, Group discussion	content, vocabulary, relevance concept	Balloon games	Video
	23. Water	Students will learn about water.	Constructive, inquiry based reflective	Worksheets, Activities	worksheet	Group activity	Video
MARCH 27	ANNUAL ASSESSMENT						

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Education to Change Lives...

MONTH	CHAPTER	EXPECTED LEARNING OUTCOMES	PEDAGOGICAL APPROACH (TEACHING METHODS/ STRATEGIES)	ASSESSMENT TOOLS	RUBRICS	ART INTEGRATION	ICT INTEGRATION
APRIL	1. Living and non-living things	Living and non-living things, natural and man-made things, characteristics of living things, differences between living and non-living things.	Constructive approach, Collaborative approach Storytelling	Class test, Group Discussion worksheet	Relevant concepts, neatness, and leadership skills.	Write and draw two examples of non-living things and living things from our surrounding Flash card game	Video
	2. Plants and their Parts	Parts of plant, Types of Plants, Functions of different parts,	Collaborative, inquiry-based, integrative approach story telling	Concept chart art G. D. worksheet	involvement, content, sequence, creativity, presentation, neatness	Make a plant by using some real parts of plants	Video
JULY	3. Birds	Body parts of a Bird, how do birds fly? Nest of Birds.	Collaborative, inquiry-based, integrative approach story telling	Concept chart, art G.D worksheet	relevance to topic, neatness, content	Birds of the feather with song and dance (movements ,sounds ,poems)	Video
	4. Insects	Insects, Body Part Of Insects, Life Cycle Of Insects, Useful and Harmful Insects	Collaborative, inquiry-based, integrative approach story telling	Concept chart art G. D. worksheet	relevance to topic, neatness, content	Draw and colour the life cycle of a butterfly	Video

AUGUST	5.Human body: A living wonder	Humanbody, Organ systems of human body (Skeletal System, Muscular System, Digestive System, Circulatory System, Respiratory System, Excretory System, Nervous System, Reproductive System) Staying Fit and Healthy	Collaborative, inquiry-based, integrative approach story telling	Case study, Flow- chart	Thoughts, Sequence	Model on digestive system Role play on different organ system	Video
	6. Food and Feeding Habits of Animals	Eating habits of animals, How Do Animals Feeds? Special Feeding Habits Of Some Animals, Food Chain , Taking Care Of Animals	Collaborative, inquiry-based, integrative approach story telling	Concept map G.D worksheet	Q/A Coordination presentation expressions	Paste pictures of different animals on chart paper Model on animal feast who eats what?	video
FIRST PERIODIC ASSESSMENT							
SEPTEMBER	7.Housing and clothing	Good and Clean House How to keep house clean, Natural Fibres, Man-Made Fibres, Clothes and Seasons.	Collaborative, inquiry-based, integrative approach story telling	Relevance to topic, Correct identification worksheet	Thoughts, Sequence	Design a home of your choice. Design a costume for your paper doll/puppet	Video

	8.Safety and first aid	Safety on the road, Safety at Home, Safety at School, First Aid.	Constructive, integrative, inquiry based. Storytelling	Surveys, art, concept map. Worksheet	relevance to topic, sequence, oral presentation	Prepare a poster on road safety. Find out about different types of road- safety signs and include them in your poster Role play on first aid	Video
	MID TERM ASSESSMENT						
OCTOBER	9.Soil: A natural wonder	Formation of Soil, Types of Soil, Components of Soil, Uses of Soil, Taking Care of Soil.	Constructive, collaborative, integrative. Storytelling	Case study, art, puzzles, worksheet.	Approach, relevance clarity, and neatness.	Make clay toys. Soil texture art	Video
	10. Solids, Liquids and Gases	Solids, Gases, Liquids, Change of State	Constructive, collaborative, integrative. Storytelling	Case study, art , puzzles, worksheet	Approach, relevance clarity, and neatness	Write five ways you are following to save water at home	Video
NOVEMBER	11. Light, sound, and force	Light, Shadow, features of a shadow, Sound, Production and Types of Sounds, Force.	Constructive, collaborative, integrative. Storytelling	Inquiry-based worksheet.	content, neatness, sequence	Observe the change in the size of the shadow Game-based (relay race, tug of war and on shadow)	Video
	12.Air,water and weather	Air, What does Air Contain? Use of Air, Water, Water Cycle, Weather, Changes in Weather, Seasons	Constructive, collaborative, integrative. Storytelling	Concept map, sketch, worksheet.	Performance, content, coordination.	Observe the change of state of Water Model of the water cycle.	Video

SECOND PERIODIC ASSESSMENT

DECEMBER	13. Sun, moon and stars	The Sun, The Stars, The Planets, The Moon.	Constructive, collaborative, integrative. Storytelling	G.D., class test, worksheet.	relevance to topic, neatness, content	Role play and model making on solar system	Video
	JANUARY 27	14. The earth	The Earth, How was the Earth formed? Shape of the Earth, Movements of the Earth, Revolution.	Constructive, collaborative, integrative. Storytelling	Constructive inquiry-based	Performance, content, coordination Collect pics of two Indian space women. Paste them and write two lines about Them. Earth game "land and water"	Video
FEB. 27	Revision						
MARCH 27	ANNUAL ASSESSMENT						

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Education to Change Lives...

CLASS: IV
Session – 2026-27

MONTH	CHAPTER	EXPECTED LEARNING OUTCOMES	PEDAGOGICAL APPROACH (TEACHING METHODS/ STRATEGIES)	ASSESSMENT TOOLS	RUBRICS	ART INTEGRATION	ICT INTEGRATION
APRIL	1.Plants: The Producers	Parts of Plants and Photosynthesis	Constructive approach, Collaborative approach.	Worksheets, Activities and class test	Relevant concepts, neatness, and leadership skills.	To make leaf imprint using colours	Video
	2. Adaptations in Plants	Adaptations in Plants, Plants based on Habitat and plants on the basis of obtaining food	Collaborative, inquiry-based, integrative approach storytelling	Class test, Group Discussion worksheet.	involvement, content, sequence, creativity, presentation, neatness	Plant album	Video
JULY	3.Reproduction in Animals	Reproduction, Animals that Lay Eggs, Animals that Give Birth.	Collaborative, inquiry-based, integrative approach storytelling	Concept chart, drawing G. D. worksheet	relevance to topic, neatness, content	Model on life cycles Eg. Frog, butterfly Stone / rock paintings	Video
	4.Adaptations and behaviour of Animals	Adaptations in Animals, Adaptations to habitat, food, protection and habitat behaviour of birds and Animals.	Collaborative, inquiry-based, integrative approach storytelling	Concept Chart, G.D. Worksheet	Thoughts, Sequence	Prepare a collage showing different types of animals and their adaptations. Animal album	Video

AUGUST	5. Food: Our basic Need	Nutrients Balanced Diet, Cooking and Preservation of Food.	Collaborative, inquiry-based, integrative approach storytelling	Case study, Flow- Chart worksheet	Q/A, Coordination, presentation, expressions	Collect pictures of different methods of food preservation. Prepare a collage on healthy habits Fireless cooking	Video
	FIRST PERIODIC ASSESSMENT						
SEPTEMBER	6. The Food Journey	Journey of food from farm to kitchen and role of farmers in food production	Collaborative, inquiry-based, integrative approach storytelling	Worksheet, G. D. Concept map	Thoughts, Sequence	Collage on equipment's and tools used in farming	Video
	Human Teeth and Digestive system	Teeth, Tongue, Taking care of teeth and Microbes	Collaborative, inquiry-based, integrative approach storytelling	Surveys, art, and Concept Map worksheet	Relevance to topic, sequence, oral presentation	Model of Teeth and Role play on Digestive system	Video
MID TERM ASSESSMENT							
OCTOBER	8. Hygiene and Safety	Personal hygiene, cleanliness in neighborhood, Safety at home, during travel, traffic signs and Protocol in case of emergency	Collaborative, inquiry-based, integrative approach storytelling	Case Study, Art, Puzzles, Worksheet	Approach, relevance, cleanliness and safety	Draw traffic signals and safety superstar show	Video
NOVEMBER	9. Solids, Liquids, and Gases	States of Matter, and Solution.	Collaborative, inquiry-based, integrative approach Storytelling	Concept map, Chart, MCQ worksheet	content, neatness, sequence	States of matter- An artistic journey	Video

SECOND PERIODIC ASSESSMENT

DECEMBER	10. Force, Work and Energy	Force, Types of Forces, Work, Simple Machines, Energy, Sources of Energy.	Collaborative, inquiry-based, integrative approach storytelling	Activities: think-pair-share, Concept map, MCQ.	performance, content, coordination	Make a paper windmill using colored papers, glue, and stick Games based on Eg tug of war, relay race	Video
	11. Air, Water and Weather	Air, Water and weather	Collaborative, inquiry-based, integrative approach storytelling	Concept map, Sketch, Worksheet	performance, content, coordination	Model on water cycle and land breeze and sea breeze.	Video
JANUARY 27	12. Green and clean Earth	Our Environment, Water, Noise, Air and Soil Pollution. Waste management, importance of trees and Swachh Bharat Abhiyan	Collaborative, inquiry-based, integrative approach storytelling	Group Discussion class test, Worksheet.	relevance to topic, neatness, content	Slogan and Poster making/ Prepare your own Manure	Video
	13. The Solar System	The Solar System and The Earth	Collaborative, inquiry-based, integrative approach Storytelling	Activities, worksheet, G. D.	Performance, content, coordination	Role Play on Solar System And Story Telling	Video
FEB 27	Revision						
MAR 27	ANNUAL ASSESSMENT						

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MONTH	CHAPTER	EXPECTED LEARNING OUTCOMES	PEDAGOGICAL APPROACH (TEACHING METHODS/ STRATEGIES)	ASSESSMENT TOOLS	RUBRICS	ART INTEGRATION	ICT INTEGRATION
APRIL	1. Growing plants.	To know about structure and germination of plant, agriculture and reproduction.	Constructive approach, Collaborative approach	Class test, G.D. worksheet	Devolvement, content, sequence, creativity, presentation, neatness.	1. Grow new plant from a root/ stem/ seed 2. Sprouting of seeds 3. Make a herbarium of flowers	Video
	2.Habitan and Adaptation.	Habitat of animals, body covering, breathing, movement in animals, feeding habits and migration	Collaborative, inquiry-based, integrative approach	Concept map, art, G.D. worksheet Class test	Relevant concepts include neatness, leadership skills.	Wildlife habitat diagrams Students will make an animal album	video
JULY	3.Human Skeleton system.	Bones and different types of joints, muscles and taking care of bones and muscles	Constructive, Integrative approach.	Case study, Flow chart Worksheet Class test.	Thoughts, Sequence.	Mode of human skeleton Or build your own skeleton buddy	video
	4. Human nervous system	Importance of the Nervous system and sense organs.	Constructive, Integrative approach.	Worksheet, G. D., concept map, role play on sense organs.	Q/A, Coordination, presentation, and expression.	Make 3 d model of the human brain Role play on different types of nerves and on reflex action	Videos

AUGUST	5. Organisms and their interdependence	Eco system, Food habits, Interdependence in living beings and Food chain and food web.	Collaborative, Integrative approach.	cooperative learning, worksheet, class test	Relevance to topic, correct identification.	Make a model of food chain and food web.	videos
	6. Food and health	Nutrients, balance diet and diseases	Constructive, inquiry-based, collaborative	Surveys, art, concept map Worksheet class test	relevant topic, sequence, oral presentation	Yoga with food- Themed poses and Collect the picture of food items and differentiate them into junk and healthy food	Video
FIRST PERIODIC ASSESSMENT							
SEPTEMBER	7. Safety and first aid	Safety from fire, safety on the road and first aid	Constructive, inquiry-based, collaborative	Case study, art, puzzles, worksheet.	Approach, Relevance, clarity and neatness.	Make a poster showing different sign of road and Safety superstar show(in the form of drama)	Videos
	8. Solid, liquid and gas.	Matter, Solutions and Change of state	Constructive, Collaborative, integrative.	Concept map, chart, MCQ. Worksheet Class test	Sequence, relevance, content, presentation.	Draw the arrangement of molecules of a pencil, coconut oil and steam from burning incense sticks States of matter: An artistic journey	video

MID TERM ASSESSMENT							
OCTOBER	9. Force, energy and simple machines.	Forces , Energy and Simple machines	Constructive, collaborative, inquiry-based.	Activities: think-pair-share, concept map MCQ.	Content, neatness, sequence.	Make a working model to show the production of any sustainable form of energy. Create a simple machine model. Ex- Pulley	Videos on water and air.
	10. Air and water.	Uses of air and water its composition, and properties.	Constructive, inquiry-based, reflective.	Concept map, sketch, worksheet.	Content, vocabulary, relevance	Make a water sprinkler Make a model on land breeze, sea breeze and water cycle	Videos
NOVEMBER	11. Natural Disasters	Earthquake, effects of earthquake, cyclone and Tsunamis, floods	Constructive, inquiry based	Activities, Think pair and share, worksheet.	Relevance to topic, neatness, content.	Collect clipping of reports and pictures from newspaper and magazines related to any four disaster in last five years Also making collage on natural disaster	Videos on Natural Disasters
SECOND PERIODIC ASSESSMENT							
DECEMBER	12. The Earth, the Sun and the moon	The Earth, The Sun, The moon and Eclipse	Constructive, inquiry-based	class test, Group Discussion worksheet Presentation	Performance, content, coordination.	Role plays on the movements of earth, Solar and lunar eclipse Collect information about Chandrayan-3 and prepare a chart.	Videos on The earth, the Sun and the moon

DEPARTMENT OF SCIENCE

JANURARY 27	13. Our Environment	Pollution, Green house effects and Global Warming	Constructive And Inquiry Based learning	Worksheet, Class test, Quiz and Flow chart	Sequence, relevance, content, presentation.	Environment song and dance	Videos
FEB 27	Revision for Annual Exams						
MARCH 27	ANNUAL ASSESSMENT						

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HAPPY DAYS
SCHOOL

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Education to Change Lives...

MONTH	CHAPTER	EXPECTED LEARNING OUTCOMES	PEDAGOGICAL APPROACH (TEACHING METHODS/ STRATEGIES)	ASSESSMENT TOOLS	RUBRICS	ART INTEGRATION	ICT INTEGRATION
APRIL	1.The Wonderful World of Science	Understanding that science is a way of thinking, exploring the natural world.	Collaborative, integrative, constructivist, inquiry based.	Concept map, activities.	Content, neatness, presentation.	Earth day celebration- role play.	Videos.
	2. Diversity in living world.	Explore the vast variety of life forms on earth, classification of living organisms, Features of Plants and their types herbs, shrubs and trees.	Collaborative, integrative, constructivist, inquiry based.	Concept map, art, worksheets, activities	Creativity, presentation, content, and neatness.	Paste the pics of types of plants based on their height, types of leaf venation and roots	PPT on different types of plants and animals found in India
JULY	3. Mindful Eating :A path to a Healthy Body	Understanding food components, balanced diet and recognizing the consequences of nutrient deficient diet.	Constructivist, collaborative, integrated.	Concept map, lab activities, diagrams, MCQ, Chart.	Creativity, performance, and neatness.	Mindful plate with clay, role play on deficiency diseases.	Videos
	4.Exploring Magnets	Magnetic materials, magnetic poles and explore the concept of attraction and repulsion.	Constructivist, inquiry based, collaborative.	Activities, Class test.	Performance, content, sequence.	Puppet Show by using small magnets, make a toy "hopping frog" using magnet.	

AUGUST	5.Measurement of Length and Motion	Measuring length using standard units and instruments and understand types of motions.	Constructivist, collaborative, integrative and inquiry based.	Activity, concept map, art, projects.	Neatness, content, presentation, expression, dialogues	3D Model on: Types of Motion	Videos
	FIRST PERIODIC ASSESSMENT						
SEPTEMBER	6. Materials Around Us	Classify materials based on their characteristics and develop a relationship between material properties.	Collaborative, inquiry-based.	Group Discussion, MCQ,	Lab Activities, concept mapping.	Material hunt around us (sorting material)	Module on earliest kind of pottery and properties of materials.
	9.Methods of Separation	Mixtures, their types, importance of separation as well as new techniques in everyday life.	Constructivist, Collaborative, integrative, inquiry based.	Home assignment, role play, portfolio.	Presentation, content. expression, Dialogues.	Stage play presenting different methods of separation on "Bharat Ki Yatra" of Madhya Pradesh and Nagaland.	videos
MID TERM ASSESSMENT							
OCTOBER	7. Temperature and its Measurement.	Distinguish between hot and cold, temperature scales, use of clinical and lab thermometer.	Constructive, collaborative inquiry, integrative.	Case study, Mcq, activities, worksheet.	Presentation, neatness analysis.	Fashion show of different animals placed at different altitude in India.	videos

	10.Living Creatures: Exploring their characteristic	Recognizing common characteristics like growth, reproduction, understanding different life cycles and exploring how organisms adapt to their habitat.	Constructivist, integrative, inquiry-based, collaborative.	Activities, model, concept map.	Content, neatness, correct formation. Thoughts, analysis.	3D Model of life cycle of seed/ draw life cycle of frog, mosquito.	Videos on life cycle of organisms.
NOVEMBER	8.A Journey through states of water	Focus on understanding different states of water, process of melting, freezing etc.	Constructive, collaborative, inquiry based, integrative.	Lab activity, team work. .class test.	Presentation, analysis Coordination.	Working model of water cycle make pot-in pot cooler.	Videos
DECEMBER	SECOND PERIODIC ASSESSMENT						
	11. Nature's Treasure	Learn types of resources, their uses and the impact of human activities.	Constructive, collaborative, integrative, inquiry-based.	Group discussion activity, case study.	Presentation, thoughts, and neatness.	Mineral Kit and Make Jewellery kit with stones of Manipur.	Videos on saving nature's treasure.
JANUARY 27	12.Beyond Earth	Understanding of constellation, celestial bodies and space exploration.	Constructivist, collaborative, inquiry-based, integrative.	Concept map, case study, activity.	Creativity, content, performance.	Make a Constellation Projector, make an embroidery of the constellation.	videos
FEB. 27	Revision						
	FINAL EXAMINATION						
MARCH 27	ANNUAL ASSESSMENT						

MONTH	CHAPTER	EXPECTED LEARNING OUTCOMES	PEDAGOGICAL APPROACH (TEACHING METHODS/ STRATEGIES)	ASSESSMENT TOOLS	RUBRICS	ART INTEGRATION	ICT INTEGRATION
APRIL	1. The ever-evolving world of science.	Focus on developing a scientific attitude and understanding of the scientific process.	Constructive, Collaborative, inquiry-based.	MCQ, survey, analysis.	Presentation, concept, creativity.	Earth day activity- poster making on the theme Our Planet our power.	Videos
	10. Life processes in plants.	To understand photosynthesis, recognizing the role of chlorophyll and differentiate between autotrophic and heterotrophic nutrition.	Collaborative, constructivist, integrative.	Concept making, field trip, lab activity.	2. Relevant concept, creativity Presentation	Develop a bottle garden by planting jade, spider plant. OR Prepare song on photosynthesis.	Video on the photosynthesis.
JULY	9. Life processes in animals.	Learn about essential processes like digestion, respiration, circulation and excretion.	Inquiry-based, collaborative, constructive.	Diagrams, teamwork, concept mapping Worksheets.	Presentation, neatness, Content.	Draw digestive system card/ working model of respiration.	Module on digestive system.

AUGUST	2. Exploring substances: Acidic, bases and neutral.	Identify substances with indicators, Properties of Acids, bases, neutralization reaction and their uses.	Constructive, collaborative, integrative, inquiry-based.	Lab activity Worksheets.	Approach, performance, Neatness Content.	Create rangoli using acidic or basic substances and natural indicators/ food chart of acidic basic substances with diagram.	Module on lichen and hydrangea.
	3. Electricity: circuits and their components.	Differentiate between static charges and electric current, understand the concept of an electric circuit, its components and construction.	Constructive, integrative .collaborative, inquiry based.	Class test Case study, Q/A.	Concept map, research, creativity.	Make a circuit to show insulator, conductor by lightning a bulb/ Electric multiple assessment project.	Videos on power house generation.
FIRST PERIODIC ASSESSMENT							
SEPTEMBER	5. Changes around us- Physical and chemical.	Distinguish between physical and chemical changes, reversible and irreversible changes and their examples in everyday life.	Inquiry-based, collaborative, constructive, integrative.	Lab activity, G.D., Concept map.	Concept, creativity, Performance.	Visible message write on paper with lemon juice by warming it with candle. / Folding paper to make different origami.	Videos on landslide and erosion in Manipur.
OCTOBER	MID TERM ASSESSMENT						

	4. The world of metals and non-metals.	Learn to distinguish between these, identify their physical properties and understand how they react with other substances.	Constructive, integrative, inquiry based and collaborative.	Lab activity Case study, survey.	Approach, performance, Content, neatness.	Make collage on different metal art styles like dhokra, barware etc of M.P. and Nagaland.	Videos to show states where gold, aluminum, iron found.
	6. Adolescence: A stage of growth and change.	Understand changes in body, role of hormones in it and its types along with personal hygiene.	Inquiry-based, collaborative, constructive, integrative.	Lab activity, G.D., Concept map. Diagrams	Content, analysis.	Write a rule book how to keep personal hygiene and good health.	Module on child marriage.
NOVEMBER	8. Measurement of time and motion.	Students learn to measure time, understand different types of motion, and calculate speed.	Inquiry based, collaborative, constructive, integrative.	Model, worksheets.	Content, Creativity, performance, accuracy, time Management.	Working model on oscillation and periodic motion.	Videos on type of motions.
	SECOND PERIODIC ASSESSMENT						
DECEMBER	7. Heat transfer in nature.	Focus on heat transfer, its modes, and the role of different materials in this process.	Inquiry based, collaborative, constructive, and integrative.	Lab activity	Approach, performance, accuracy.	Make working model on land breeze and sea breeze/ spinning of paper by burning candle.	Videos on mode heat transfer.

JANURARY 27	11. Light: Shadows and reflections.	Understanding that light travels in a straight line, the concepts of reflection and refraction, and the different types of images formed by mirrors and lenses.	Inquiry-based, collaborative, constructive, integrative.	Field trips (forest trip), Writing assignment.	Content, clarity of thoughts, vocabulary, presentation.	Make 3d model on periscope, pinhole and kaleidoscope. / play shadow puppetry show.	Module to show reflection of light, types of objects.
	12. Earth, Moon and the sun.	The Earth's rotation and revolution cause the moon phases, the causes of solar and lunar eclipse.	Constructive, collaborative, integrative, inquiry-based, reflective.	Worksheets, survey, teamwork, case study.	Content, sequence, creativity, presentation.	Role play on the revolution and rotation of earth and model of solar and lunar eclipse.	Video on star trails, observatory
FEB. 27	Revision						
	FINAL PRACTICAL ASSESSMENT						
MARCH 27	ANNUAL ASSESSMENT						

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[MANISHA MAHENDRA]

SIGNATURE OF PRINCIPAL



[ANJU SHARMA]

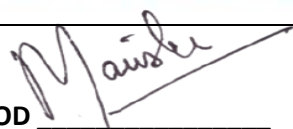
MONTH	CHAPTER	EXPECTED LEARNING OUTCOMES	PEDAGOGICAL APPROACH (TEACHING METHODS/ STRATEGIES)	ASSESSMENT TOOLS	RUBRICS	ART INTEGRATION	ICT INTEGRATION
APRIL	Chapter-1 Exploring the investigative world of science	Reflection on previous and present session like ecosystem movement of molecules, matter, health , pressure etc.,	Constructive approach, collaborative approach, reflective approach, storytelling.	Class discussion, oral test, Question and answer, home assignment, worksheet	Sequencing, presentation, time management	Making solution with sugar , salt, lemon juice with water	
	Chaper-2 The invisible living world : beyond our naked eye	Concept of cell , tissue and organ system , discovery of cell , structure of plants and animal cell , definition and classification of microorganism , useful and harmful effect of microorganism	Constructive approach, reflective approach, Integrative approach,	Classroom discussion, test, home, debate, assignment worksheet, lab activity	Sequencing, Neatness, creativity, presentation	Cartoons of microorganism, preparation of slide	Modules on types of microorganisms
JULY	Chapter-4 Electricity: magnetic and heating effects	Introduction, magnetic effect , components of a circuit , cells and batteries , heating effect	Constructive approach, collaborative approach, reflective approach, Integrative approach	Class room discussion, worksheet lab activity	Content, sequence, creativity, presentation		Module on magnetic and heating effect of electric current

	Chapter-7 Particulate nature of matter	Composition of a matter, characterizes of matter (volume, shape, state, compression, interparticle spacing)	Constructive approach, collaborative approach, reflective approach, Integrative approach	Class room discussion, worksheet lab activity, class test	Content, sequence, creativity, presentation, observation skill	Making of colour mixture, checking the changing shapes of liquid in different container	
AUGUST	Chapter-3 Health: the ultimate treasure	Maintaining healthy life style, causes and types, prevention and control of disease, concept of antibiotics and vaccination	Constructive, integrative, storytelling, collaborative approach, reflective approach	Class discussion, oral test, home assignment, worksheet, role play, case study	Content, sequence, creativity, presentation	Role plays on communicable disease, making mask, chart of famous scientist and their discoveries	Video antibiotics and vaccination
	Chapter – 5 Exploring forces	Introduction, types of forces, effects of forces, weight and its measurement, floating and sinking	Constructive, integrative, storytelling, collaborative approach, reflective approach	Class discussion, oral test, home assignment, worksheet, role play, case study, activity	Content, sequence, creativity, presentation	Activity on static electricity, making of electroscopes, role play on muscular force	
FIRST PERIODIC ASSESSMENT							
SEPTEMBER	Chapter-6. Pressure, winds, storms, and cyclones	Pressure , relation of force , pressure and area , types of pressure(exerts by liquid and air), formation of wind , storms, thunderstorm and lighting , cyclone,	Constructive integrative, collaborative approach, reflective approach	Classroom discussion, home assignment, worksheet, Activity, quiz	Time management, relevance to the topic, presentation	Model on air pressure, chart on lighting conductor	Videos on natural calamities

	Chapter-8 Nature of matter : elements , compounds and mixtures	Types of mixtures pure substance, separation of substance from mixture, use of elements compound and mixtures, types of minerals	Constructive approach, inquiry-based approach, reflective approach, Integrative approach	Class discussion, oral test, home assignment, worksheet, lab activity	Content, sequence, conceptual presentation, time management	Separating materials from mixtures from heating and magnet, chart of different minerals	
	MID TERM ASSESSMENT						
OCTOBER	Chapter – 9 Amazing world of solvents, and solutions	Introduction of solute, solvent and solution, effect of temperature on solubility, solubility of gas, density, volume of liquid, effect of temperature and pressure on density	Constructive approach, inquiry-based approach, reflective approach, Integrative approach	Lab activity, classroom discussion, worksheet, presentation	Time management, performance, Conceptual presentation	Dissolution of baking soda in water ,level of water in the measuring cylinder	Videos on layers of earth and their density
NOVEMBER	Chapter-12 How nature works in harmony	Introduction on habitat and ecosystem, components of habitat, importance of every organism in a community, interaction among organism and surroundings, waste management, balancing ecosystem and its importance	Constructive, integrative, storytelling	Classroom discussion, worksheet	Content, sequence, creativity, presentation	Visiting different types of habitats, segregation of waste and composting	Module on food chain and food waves

SECOND PERIODIC ASSESSMENT							
DECEMBER	Chapter – 10 Light: mirror and lenses	Introduction on light, shadow and reflection, Types of mirrors- Spherical: characteristics of images formed on it. Laws of reflection, types of lenses.	Constructive approach, collaborative approach, reflective approach	Class room discussion, worksheet, debate	Content, sequence, creativity, presentation	Lab activity on mirrors and reflection. Image formation with different types of lenses.	Videos on laws of reflection.
	Chapter -11 Keeping time with the skies	Appearance of moon, Phases of moon, Locating the moon, Lunar and solar calendars Artificial satellites.	Constructive approach, collaborative approach, reflective approach	Class room discussion, worksheet, quiz	Content, sequence, creativity, presentation	3-d model of phases of moon	Videos on solar eclipse
JANUARY 27	Chapter–13. Our home: Earth, a unique life sustaining planet	Special features of earth, solar system, thing on earth which support life, reproduction of animals and plants, Threats to life on earth.	Constructive, integrative	Worksheet. Quiz, debate	Presentation, creativity	Models of solar system, charts on animal reproduction.	Video on threats on lives on earth.
FEB. 27	Revision						
	FINAL PRACTICAL ASSESSMENT						
MAR 27	ANNUAL ASSESSMENT						

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[MANISHA MAHENDRA]

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[ANJU SHARMA]

MONTH	CHAPTER	EXPECTED LEARNING OUTCOMES	PEDAGOGICAL APPROACH (TEACHING METHODS/ STRATEGIES)	ASSESSMENT TOOLS	RUBRICS	ART INTEGRATION	ICT INTEGRATION
APRIL	Chapter-1 Exploring: entering the world of secondary science	Introduction of secondary science, correlation between previous and present syllabus	Constructivist, Inquiry based	Classroom discussions, question answer,	Content, neatness, completion, time management		
	Chapter-2 Cell: the building block of life	Introduction, type, shape and structure of cell, cell theory, cell membrane, diffusion, osmosis, cell wall, cell interiors, cytoplasm, nucleus	Constructivist, Reflective, Inquiry-based, Integrative	Classroom discussions, question answer, group discussion, class test, oral test	Content, neatness, lab activity completion, time management, presentation, topic sequence	Preparation and observation of onion peel under microscope	Videos on introduction of cell
	Chapter-4 Describing Motion around us (Phy)	Motion, displacement, velocity, acceleration	Constructivist, Reflective, integrative, inquiry based	Classroom discussion, Drawing and understanding graphs, Flip classroom	Content, neatness, completion, time management		Videos
	Chapter-5 Exploring mixture and their separation	Classification of mixture, solutions, concentration and solubility, Tyndall effect	Constructive Inquiry based, Reflective	Brainstorming, Classroom discussion, Class test, Demonstration, Flowchart, Group discussion Pen and Paper test	Content, Time Management Fluency	Activity on Tyndall effect	Videos on classification of mixtures and solutions

JULY	Chapter-2 Cell: the building block of life (continue) (Bio)	Endoplasmic Reticulum, Golgi Apparatus, Lysosomes, Plastids, Vacuoles, Mitosis and Meiosis cell division	Constructivist, Inquiry based, Reflective	Question Answer session, Sketch, Home assignment	Content, neatness, completion, time management Approach Sequence		Video of cell structure
	Chapter Describing Motion around us	Graphical representation of motion for an object moving in a straight line in one direction (with constant velocity, and constant acceleration) Kinematic equations for motion in a straight line with constant acceleration (by graphical method) Elementary idea of uniform circular motion	Constructive, Reflective, Integrative Inquiry-based	Drawing graphs, problems based numerical	Relevance to the topic: Neatness Accuracy	Make graph of different types of motion	
	Chapter -6 How forces affect motion	Force, Balanced and unbalanced force, friction	Constructivist, Reflective, Integrative, Inquiry-based	Question answer assignment	Content, neatness, completion, time management		Video Module (force and laws)
	Chapter-5 Exploring mixture and their separation	Methods of separation: crystallization, distillation, paper chromatography, separation of immiscible liquids, sublimation, centrifugation, coagulation	Constructivist, Inquiry-based, Integrative, Inductive	Class test, Demonstration on Flowchart Group discussion, lab activity, Pen and Paper test	Concept Accuracy Vocabulary Observation Critical, Thinking Presentation Collaboration Time Management	Experiments on separation of mixtures	

DEPARTMENT OF SCIENCE

AUGUST	Chapter-3 Tissues in action (Bio)	Plant tissues: types (meristematic tissues, permanent tissues), structure and function, permanent tissue: protective tissue supportive tissues & conductive tissues, tissue system, Functions of plant tissues	Constructivist, Reflective, Inquiry-based	Classroom discussion, Sketch, Home assignment, lab activity	Content, neatness, completion, time management	Classification chart, observation of plant tissue under microscope	
	Chapter -6 How forces affect motion (Phy)	Newton's First Law of motion and its applications, Inertia and mass	Constructivist, Reflective, Integrative, Inquiry-based	Classroom discussion, activities, assignment s problem-based	Content, neatness, Relevance Approach, Accuracy	Demonstration of Newton's law by balloon rocket and table cloths trick	
	Chapter-8 Journey inside the atom	Rediscovery the roots of atomic theory, short historical journey through atomic models, Thomson's, model of an atom and testing, Rutherford model and limitation	Constructive Inquiry-based Integrative	Classroom discussion Class test, Storytelling, sketch and diagrams , home assignment	Concept Accuracy Vocabulary Observation Critical Thinking Presentation Time Management		Videos on models of atoms
FIRST PERIODIC ASSESSMENT							
SEPTEMBER	Chapter-3 Tissues in action (Bio)	Animal tissues: epithelial tissue, connective tissues, muscular tissues, nervous tissue, structure and function, musculoskeletal system, types of joints, skeletal system	Constructivist, Reflective, Inquiry-based	Classroom discussion, Sketch, Home assignment	Content, neatness, completion, time management	Draw diagram-different types of animal tissue	
	Chapter -6 How forces affect motion (contd.) (Phy)	Newton's second and third laws of motion and their applications	Constructivist, Inquiry based	Classroom discussions, numerical	Involvement, team management Relevance Approach, Accuracy		Videos on three laws

DEPARTMENT OF SCIENCE

	Chapter-7 Work, Energy & Simple Machines	Concept of Work done by a constant force, Work energy theorem, Mechanical energy, kinetic and potential energy,	Constructivist, Inquiry based	Classroom discussions, numerical	Involvement, team management Relevance Approach Accuracy		
	Chapter-8 Journey inside the atom	Bohr's model of atom , discovery of neutron , symbols of atom , atomic number , mass number, electron configuration, valency, isotopes, isobars, average atomic mass	Constructive Inquiry-based, Deductive, Integrative	Problem-based learning, Worksheet, Classroom discussion Pen and Paper test	Relevance Approach Accuracy Content Neatness	3d model Bohr's atomic model, chart of valency and electron configuration	
	MID TERM ASSESSMENT						
	Chapter-12 Pattern in life ; diversity and classification	Biodiversity hotspot, classification of organisms, biological classification over time	Constructivist, Reflective, Inquiry-based	Classroom discussion, Sketch, Home assignment	Content, neatness, completion time management, content, creativity, presentation		Presentation and video on biodiversity
OCTOBER	Chapter-7 Work, Energy & Simple Machines (contd,)	Conversion between potential energy and kinetic energy Conservation of energy Power	Constructivist, Inquiry based	Classroom discussions, numerical	Relevance Approach Accuracy	Finding the density of given object using spring balance and measuring flask	Module (flotation)
	Chapter-9 atomic foundation of matter (Chem.)	Laws of chemical combination, Dalton's atomic theory, atoms, their size and symbol, atomic mass, molecules and ions	Constructivist, Reflective, Deductive, Integrative	Problem-based learning, home assignments Class test	Relevance Approach Accuracy	Chart of ions	Videos on law of chemical combination

DEPARTMENT OF SCIENCE

NOVEMBER	Chapter-12 Pattern in life; diversity and classification	5 kingdoms, adaptations scientific binomial system of nomenclature, fossils	Constructivist, Reflective, Inquiry based	Classroom discussion, Sketch, Home assignment	Content, neatness, completion, time management content, creativity, presentation	Flow chart on kingdoms	
	Chapter-7 Work, Energy & Simple Machines (cont.,)	Simple machines and their mechanical advantage (pulley, inclined plane, lever	Constructivist, Inquiry based	Classroom discussion, activities, Problem based learning	Relevance Approach Accuracy	Conservation on mechanical energy	
	Chapter-9 Atomic foundation of matters (Chem.)	bonding, Writing chemical formulae of common compounds, molecular masses	Constructivist, Inquiry based, Inductive	Classroom discussion Reasoning Oral test	Concept Critical thinking	Chart on types of bonds	
DECEMBER	SECOND PERIODIC ASSESSMENT						
	Chapter-11 How life continues	Introduction of reproduction, asexual and sexual reproduction plants	Constructivist, Reflective	Sketch, Home assignment	Content, neatness, completion, time management	Flow chart of reproduction in plants	

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	Chapter 10– Sound waves: characteristics and application (Phy)	Production of sound Propagation of sound (as a longitudinal wave through a medium) Graphical representation of sound wave Characteristics of sound wave (wavelength, frequency, time period, amplitude, intensity, speed), Human perception of sound (pitch, loudness) Propagation of sound in different media (solid, liquid) Reflection of sound (echo, reverberation), echolocation	Constructivist, Inquiry based	Classroom discussion, activities, Problem based learning	Relevance Approach Accuracy	Group built a simple instrument to explain pitch frequency and amplitude	
	Chapter-13 Earth as system: energy matter and life	Spheres of earth, solar radiation, role of atmosphere, effect of uneven heating	Constructivist, Inquiry based	Problem-based learning Worksheet Pen and Paper test	Relevance Approach Accuracy Content, neatness, completion, time management		Videos on earth and global warming, climate change
JANUARY 27	Chapter-11 How life continues	Sexual reproduction in animals Reproduction in human being, pregnancy and childbirth	Constructivist, Reflective, Inquiry based	Classroom discussion, activities, Problem based learning	Relevance Approach Accuracy Content, neatness, completion time management		Module on reproduction
	Chapter-13 Earth as system: energy matter and life	Winds and ocean current biochemical cycle, human impact on earth's process	Constructivist, Reflective, Inquiry based	Classroom discussion, activities, Problem based learning	Relevance Approach Accuracy Content, neatness, completion, time management	Model of water cycle, carbon cycle, nitrogen cycle	

FEB. 27

FINAL EXAMINATION

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[ANJU SHARMA]


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MONTH	CHAPTER	EXPECTED LEARNING OUTCOMES	PEDAGOGICAL APPROACH (TEACHING METHODS/ STRATEGIES)	ASSESSMENT TOOLS	RUBRICS	ART INTEGRATION	ICT INTEGRATION
APRIL	Chapter 5: Life Processes (Bio)	Nutrition, Modes of Nutrition, Nutrition in plants and human being Respiration in plants and animals	Constructivist, Reflective, Inquiry-based, Integrative	Classroom discussion, question-answer session, Individual test, home assignments Class test Lab activity	Concept, neatness, completion, time management sequence, creativity, presentation	3D chart or models on Human heart, Digestive system, and Respiratory system	Modules on life processes (Nutrition, Respiration)
	Chapter 9: Light – Reflection and Refraction (Phy)	Propagation of light, reflection, laws of reflection, image formation by spherical mirrors, uses of mirrors. Mirror formula and magnification, sign convention, solving numerical based on mirror formula, Refraction, Laws of refraction, refractive index	Constructive Reflective integrative Inquiry based	Experiment, ray diagram, classroom discussions, home assignment,	Concept Neatness Accuracy Completion	Ray diagram	Module (Image formation by spherical mirrors)
	Chapter1: Chemical Reactions and Equations (Chem)	Chemical reactions and its identification, Chemical equations and their balancing, all types of chemical reactions and their examples.	Think-Pair-Share Constructive Inquiry based Demonstration Experimentation	Entry and exit questions Choral response Class test Lab activity	Relevance Accuracy Imagination Concept Promptness Discipline	Chart of elements and ions along with their valency/charge Reactivity series of metals	Module (Types of Chemical Reactions)

DEPARTMENT OF SCIENCE

JULY	Chapter 5: Life Processes (continue) (Bio)	Transportation in plants and human being, Excretion in plants and human beings	Constructivist, Integrative Approach, Reflective approach	Classroom discussion, Sketch Lab activity Assignment	Concept, neatness, completion, time management sequence, creativity, presentation	Role play on nutrition in human being and transportation in human being.	Modules on life processes (Transportation, Excretion)
	Chapter 9: Light – Reflection and Refraction (Phy)	Spherical lenses, image formation by lenses, sign convention, lens formula, power of lens	Constructive Reflective integrative Inquiry-based	Experiment, ray diagram, classroom discussion	Concept procedure Neatness Accuracy Completion	Ray diagram	Animated Video on Refraction
	Chapter 2: Acids, Bases and Salts (Chem)	Acids and Bases: definitions, identification using indicators, chemical properties, examples and uses, neutralization, concept of pH scale, importance in everyday life, Preparation and uses of Sodium Hydroxide, bleaching powder, baking soda, Washing soda and Plaster of Paris	Constructive Inquiry-based Demonstration Experimentation	Brainstorming Lab Activity Class test	Relevance, Coordination Time Management	Chart on different types of indicators	Phet simulation (Acid–Base solutions) Animated Video
AUGUST	Chapter 6: Control and Coordination (Bio)	Control and coordination in animals: Nervous system; Voluntary, involuntary reflex action; Tropic movements in plants; Introduction of plant hormones, Chemical coordination (animal hormones)	Constructivist, Inquiry based	Classroom discussion, Sketch, flowcharts	Concept, neatness, completion, time management sequence, creativity, presentation	3D Model of human brain	Animated Video

	Chapter 10: The Human Eye and the Colorful World (continue) (Phy)	Refraction of light through a prism, Dispersion, and rainbow formation	Constructive Reflective Integrative Inquiry-based	Ray diagram, Demonstration-refraction, total internal reflection,	Concept Neatness Accuracy Completion	Structure of the eye	
	Chapter 3: Metals and Non-Metals (Chem)	Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds	Constructive Reflective	Entry and exit questions, Worksheet	Relevance Accuracy Imagination Completion Time Management	Reactivity series	Animated Video
FIRST PERIODIC ASSESSMENT							
SEPTEMBER	Chapter 7: How do organisms reproduce? (Bio)	Asexual and Sexual reproduction in plants and animals, reproductive health-need and methods of family planning, Safe sex HIV/AIDS, Child bearing and women's health.	Constructivist, Inquiry based	Classroom Discussion, Question answer session,	Concept neatness, completion, time management,	Diagrams of different methods of asexual reproduction	Animated Video
	Chapter 10: The Human Eye and the Colorful World (continue) (Phy)	Phenomena based on atmospheric refraction and scattering of light	Constructive Reflective Integrative Inquiry based	Demonstration scattering, assignment.	Concept Neatness Completion	Diagrams	Animated Video
	Chapter 11: Electricity (Phy)	Electric current, potential and potential difference, electric circuit, Ohm's law	Constructive Collaborative	Circuit diagrams, home assignment	Relevance, Leadership skills, Coordination Time Management	Paper circuit (Series & Parallel combination)	Module (Ohm's Law)

DEPARTMENT OF SCIENCE

	Chapter 3: Metals and non-metals (continue) (Chem)	Basic metallurgical processes; Corrosion and its prevention	Constructive Reflective	Entry and exit questions, Worksheet Class test	Relevance Accuracy, Imagination Completion Time, Management	the steps of extraction of metals	Module (extraction of metals)
	MID TERM EXAMINATION						
OCTOBER	Chapter Heredity (Bio)	Heredity, contribution, Mendel's Laws of inheritance of traits, sex determination	Constructivist, Inquiry-based, Integrative	Classroom discussion, Pair work, Problem-based learning, learning across curriculum, assignment	Concept, neatness, completion, time management, Approach, sequence, presentation	Charts on Mendel's law	Animated Video
	Chapter 11: Electricity (continue) (Phy)	Ohm's, Resistance, resistivity, affecting resistance, series And parallel combination, Joules law of heating, electric power, Interrelation between P,V, I and R	Constructive Reflective, integrative Inquiry based	Circuit diagrams, experiment	Concept procedure Neatness Accuracy Completion		
	Chapter 12: Magnetic Effects of Electric Current (Phy)	Oersted's experiment, magnetic field, magnetic field lines and their properties, right hand Thumb rule	Constructive Reflective integrative, Inquiry-based	Circuit diagrams, activity, and notes	Concept Neatness Completion		Animated Video
	Chapter 4: Carbon and its compounds (Chem)	Covalent bonding, versatile nature of carbon, saturated and Unsaturated hydrocarbons, homologous series, Nomenclature of carbon compounds	Constructive Reflective Integrative Inquiry based	Worksheet	Concept Neatness Accuracy Time Management	Covalent bonds formation	Module (Carbon compounds)

DEPARTMENT OF SCIENCE

NOVEMBER	Chapter13: Our Environment (Bio)	Eco-system, Food chain, food-web, trophic levels, 10%law, biological magnification, environmental problems, ozone depletion, waste production and their solutions, biodegradable and non-Biodegradable substances	Constructivist, concept map, inquiry based	Class discussion, Problem based learning, worksheet	Concept, neatness, completion, time management	Draw flow charts on food chain and food web	Animated Video
	Chapter 12: Magnetic Effects of Electric Current (continue) (Phy)	Magnetic field due to straight current carrying conductor, circular loop, a solenoid, force acting on a conductor placed in magnetic field, Fleming's left-hand rule, Domestic electric circuit	Constructive Reflective integrative Inquiry based	Circuit diagrams, Classroom discussion	Concept Neatness Accuracy Completion		
	Chapter 4: Carbon and its compounds (Continue) (Chem)	Chemical properties of carbon compounds, Ethanol and ethanoic acid, soaps and detergents	Constructive Inquiry-based Experimentation Collaborative Reflective	Question Answer Session Class test Lab activity	Promptness Concept Neatness Completion Time Management	Chart (functional group)	Module (Soaps and detergents)
DECEMBER	PRE BOARD I EXAMINATION						
JANURARY 27	PRE BOARD II EXAMINATION						
	FINAL PRACTICAL EXAMINATION						

FEB - MAR. 27

ANNUAL EXAMINATION

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