

SCIENCE				
MONTH	NO. OF PERIODS	TOPIC	SUBTOPIC	LEARNING OBJECTIVES
APRIL	19	Ch-1 Components of food	Introduction of Food and its Need	Oral questions will be asked randomly before every teaching session
		Components of food	Food variety and ingredients	Students will be able to list variety of food items that they eat and specify ingredients of various food items.
		Components of food	Souces and edible parts	To identify wheather a food item is from plant or animal source and edible parts of different plants.
		Components of food	Herbivores, carnivores and omnivores	To classify animals as herbivores, carnivores and omnivores on the basis of their eating habits
		Components of food	Nutrients	To list the various nutrients present in the food
		Components of food	Test of starch, Protein and fats	Learn the methods to test the presence of different nutrients
		LAB 1 - Chemistry	test the presence of starch	Students will be able to do starch test for carbohydrates
		Components of food	Function of various nutrients	List the functions of carbohydrates, protein, fats, vitamis, minerals, dietary fibres and water
		Lab 2- Chemistry	test the presence of protein	Students will be able to do protein test
		Components of food	Need of balanced diet	Students will be able to apply the concepts to their day to day life and make their own balanced diet which have to follow
		Components of food	Deficiency disease	List the names of diseases caused by deficiency of vitamins and minerals
		Components of food	Revision and exercise discussion	To recall all nutrients, their function and deficiency diseases and relevant questions will be asked
		Components of food	Class test	Assessment of all topics in chapter
MAY	19	Ch-2 Sorting materials into groups	Inroduction of Objects around us	To identify different objects around them and materials used to make them
		Sorting materials into groups	need of sorting	Students will learn why they need to separate different components and objects
		Sorting materials into groups	Properties of material	To identify the properties of materials on the basis of which they can separate the components
		Sorting materials into groups	Solubility, texture and hardness	Students will group materials on the basis of properties (including solubility, texture and hardness)
		Sorting materials into groups	Sinking and floating	To know how object sink or float and learn about upthrust force
		Lab 2- Chemistry	Solubility and floatation	to test the solubility and floatation of different materials
		Sorting materials into groups	Transparency	To identify the objects on the basis of transparency
		Sorting materials into groups	Revision and exercise discussion	To recall all topics of the chapter
		Sorting materials into groups	Quiz and discussion	Assessment and dicussion on other ways of grouping the object
		Ch-3 Separation of substances	Mixture, pure and impure substance	To define and indentify different substance present in a mixture
		Separation of substances	Introduction on Need of separation	To learn why we need to separate different components of a mixture
		Separation of substances	Different methods of separation	To know about different possible methods of separation and perform handpicking method in the class

		Separation of substances	Threshing and Winnowing	To learn about the process of Threshing and winnowing method and their examples
		Separation of substances	Sedimentation, Decantation and filtration	To learn the use of all these methods with examples
		Lab 3- Chemistry	Filtration and sedimentation method	Students will be able to separate sand from water by filtration and sedimentation
JULY	21	Separation of substances	Evaporation, condensation and precipitation	To understand all process of water cycle with the help of flow chart and their use in real life
		Separation of substances	Revision	Recall all methods of separation
		Class Test	Ch-1,2,3	Assessment of all chapters
		Ch-4 Getting to know plants	Introduction of Herbs, shrubs and trees	To define the term herb shrubs and trees with example of each
		Getting to know plants	Different parts of Plants and their importance	Students will be able to describe different parts of plants with their functions
		Getting to know plants	Types of roots	To learn different types of root with examples
		Getting to know plants	Venation of leaves and roots	To analyze the relation between venation of leaves and different types of roots
		Getting to know plants	Structure of flower	Students will be able to draw and identify the structure of flower with each parts
		Lab 4- Biology	Dissection of parts of flower	Students will be able to explore different parts of flower
		Getting to know plants	Pollination and fertilization	To learn about pollination and fertilization process in plants
		Getting to know plants	Revision	To recall all topics of chapter again
		Getting to know plants	Written test	Assessment
		AUGUST	18	ch-5 Body Movement
Body Movement	Joints and types of joints			To learn and identify different types of joints and their location
Lab 5- Biology	The Human Skeleton			To demonstrate the skeleton model and skull with their functions
Body Movement	human muscles, Ribcage and backbone			To learn the function of muscles, ribcage and backbone.
Body Movement	Giant Animals- Earthworm and Snail			To know about the movement of Earthworm and snail
Body Movement	Cockroach, Fish and birds			To know about the movement of Cockroach, fish and birds
Body Movement	Revision of Different types of joints			Students will be able to recall all types of joints
Body Movement	Exercise discussion and doubt session			Students will be able to discuss NCERT book exercise
Body Movement	Written test			Assessment of chapter
Ch-7 Motion and Measurement of distances	Introduction of motion and measurement			students will be able to know about locomotion, motion and measurement
Motion and Measurement of distances	Standard unit and SI unit			To know why we need standard unit for the measurement and learn SI units of all quantity
Motion and Measurement	Types of motion			To learn all different types of motion with their examples

		Motion and Measurement	Conversion of units	students will be able to learn how to convert units
		Motion and Measurement	Uniform and non- uniform motion	To learn the difference between uniform and non- uniform motion
		Motion and Measurement of distances	Traditional methods of measurement	To know about all traditional methodsfor measurement and how it differ from modern method
		Lab 6- Physics	Oscillatory motion	To observe the number of oscillation in simple pendulum
		Motion and Measurement of distances	Revision and exercise discussion	Students will be able to discuss ncert book exercise questions
SEPTEMBER	16	Motion and Measurement	written test	assessment of chapter
		Revision of Ch-4,5,7	revision and doubt session	Students will be able to discuss their doubts
		Ch-6 The living organisms	Introductions on characteristics of	To learn about different kinds of living organisms and their characteristics
		The living organisms characteristics	Stimuli	To know about how we respond to the cahnges occur in our surroundings
		The living organisms characteristics	Reproduction and biotic- abiotic	To know about reproduction and Biotic- abiotic factors
		The living organisms characteristics and habitats	Adaptations of desert animals and plants	Students will be able to know how desert animals can adapt yourself in that region
		The living organisms characteristics	Polar region animals	To know about polar region animals and their adaptations
		The living organisms characteristics	water animals	To learn about streamlined body and examples of water bodies
		Activity	Map work	To identify different states with animals and plants grown
		The living organisms characteristics	Revision and exercisediscussion	students will be able to discuss back exercise of ncert text book
		The living organisms characteristics	written test	student will be able to give test of cahpter
		revision of Ch-1,2	Oral revision	Assessment
		Revision of Ch-3,4	Oral revision	assessment
		Revision of Ch- 5,6,7	Oral revision	Assessment
		Half yearly exam revision	Written test	Assessment
		Half yearly exam revision	Written test	Assessment
OCTOBER	18	Ch-8 light, shadow and reflection	Luminous and non luminous	students will be able to know about light, souces of light and luminous objects with examples
		Light, shadow and reflection	Reflection, Refraction and transmission	students will be able to know about reflection, refraction
		Light, shadow and reflection	Propertiesof Light	students will be able to leran about the properties of light,
		Light, shadow and reflection	Shadow	Students will be able to learn how shadow formed and properties of shadow
		Light, shadow and reflection	Pinhole camera	To know about the construction of Pinhole camera and their working
		Lab 7 - STEM Lab	Reflection and transmission of light	To demonstrate reflection and transmission of light
		Light, shadow and reflection	Transparency of objects	To define tranparent, translucent and opaque objects.
		Light, shadow and reflection	Revision	To revise all topics of chapter and discussion
		Light, shadow and reflection	Exercise discussion and doubt session	To discuss back exercise of ncert textbook
		Light, shadow and reflection	Written test	Assesment of chapter
		Ch-11 Air Around Us	Composition of Air	Students will be able to learn about all composition
		Air Around us	Uses of nitrogen and oxygen	Students will be able to learn about uses of all nitrogen and oxygen
		Air Around us- Activity	Presence of air in water and sand	To learn how air is present in water and sand
		Lab 8- Chemistry	Combustion	To demonstrate how air supports burning
		Air around Us	Water cycle and importance of rainfall	To learn about importance of rainfall and water cycle process
		Air aound us	Air pollution	To know about causes and effect of air pollution

NOVEMBER	20	Air around us	Revision and exercise of ncert textbook	Students will be able to discuss back exercise of ncert text books
		Air around us	Written test	Assessment of chapter
		Revision of Ch-8 and 11	Doubt session	Students will be able to take part in doubt session
		Revision of Pt-3	Oral revision	To revise all topics of chapter and discussion
		Ch-9 Electricity and circuits	Introduction of Electricity and uses	Students will be able to learn the basic knowlwdge about electricity
		Electricity and circuits	Conductivity	To know about electricity conductors and insulators
		Electricity and circuits	Switch	Students will be able to learn about function of switch
		Lab 9- STEM	Electric maze	To demonstrate the function of electric maze
		Electricity and circuits	Complete or incomplete circuits	To identify complete or incomplete circuits with reasons
DECEMBER	21	Lab 10- STEM	Electric Cell	To demonstrate the function and parts of electric cell
		Electricity and circuits	Electric circuit symbols	Students will be able to draw electric symbols of cell, battery, switch on and off
		Electricity and circuits	Electric bulb	To know about function of fusein bulb and how it works
		Electricity and circuits	Electric current	To learn about electrons and how current flows in a circuit
		Electricity and circuits	Precautions	Students will learn about the precautions taken during work with electricity
		Lab-11 Physics	Conductors and insulators	To identify electric conductors and insulators with doing experiment
		Electricity and circuits	Electric circuits	To identify the reason of not glowing bulb in a circuit
		Electricity and circuits	Revision	To recall all topics in a chapter
		Electricity and circuits	Doubt session	Students will be able to clear their doubts
JANUARY	19	Ch-10 Fun with magnets	Introduction of magnets and magnetic	To learn about the examples and definition of magnetic and non- magnetic
		Fun with Magnets	Discovery of magnet	To know about who and how discovered magnet
		Lab 12 - STEM	Different shapes of magnet and their poles	Students will be able to demonstrate different kinds of magnets and their properties
		Fun with Magnets	Properties of magnets	To learn about different properties of magnet
		Fun with Magnets	How compass works	To know about the working of compass
		Lab 13- Physics	Deflection of magnetic needle	To demonstrate the deflection of compass needle after passing current
		Fun with Magnets	Earth's magnetic effect	To learn about magnetic effect of earth and attraction
		Fun with Magnets	Uses of magnet	To learn about different uses and application of a magnet
		Lab 14- Phycis	Freelely suspended magnet	To demonstrate how freely suspended magnet always lie
FEBRUARY	18	Fun with Magnets	Revision	To recall all topics of chapter
		Fun with Magnets	Exercise discussion and doubt session	To discuss back exercise of ncert book
		Fun with Magnets	Written test	To give test of chapter
		Revision of Ch-1,3	Oral revision	Assessment test
		Revision of Ch-5,7	Oral revision	Assessment test
		Revision of Ch-6,8	Oral revision	Assessment test
		Revision of Ch-9,10,11	Oral revision	Assessment test
		Revision of Pt-4	Written test	Assessment test
		Revision of Pt-4	Oral revision	Assessment test
		Revision of Final term examination	Oral revision	Assessment test
		Revision of Final term examination	Written test	Assessment test
		Revision of Final term examination	Discussion	Assessment test
Revision of Final term examination	oral discussion	Assessment test		