

SCIENCE				
MONTH	NO. OF PERIODS	TOPIC	SUBOPIC	LEARNING OBJECTIVES
APRIL	19	Ch- Nutrition in Plants	Modes of nutrition	Students will be able to know about the modes of nutrition in organisms
		Nutrition in Plants	Photosynthesis	To learn how plants make their own food and about stomata and chlorophyll
		Nutrition in Plants	Cells	To know about structure and all organelles of cell
		LAB 1- Biology	Plant cell	To demonstrate plant cell model
		Nutrition in Plants	Parasite, symbiosis and lichens	Learn about Parasite plants and meaning of symbiosis with examples
		Nutrition in Plants	Nitrogen cycle + Exercise	To learn how nutrients replenish in the soil and NCERT book exercise discussion
		Nutrition in Plants	Written test	Assessment and error tracking
		Ch-2 Nutrition in Animals	Introduction of different ways of taking food	To know about different modes of food intake in animals
		Nutrition in Animals	digestion in humans	To demonstrate permanent slides of stomata
		Lab 2- Biology	Stomata slides	To demonstrate permanent stomata slides under microscope
		Nutrition in Animals	Digestive system	To understand the process of digestion in humans with diagram
		Nutrition in Animals	Teeth arrangement and tooth decay	To know about different types of teeth and their arrangement in mouth
		Nutrition in Animals	ruminants and digestion in Amoeba	About ruminants, rumination and digestion process in amoeba
		Nutrition in Animals	Revision and exercise discussion	To discuss NCERT book exercise properly and recall all topics
MAY	19	Lab 3- Biology	Amoeba slides	To see permanent slide of amoeba under microscope
		Nutrition in Animals	Written test	To test the knowledge skill and aptitude acquired by students
		Ch-3 Heat	Introduction of hot and cold temperature and different types of thermometer	To know about clinical and laboratory thermometer
		Heat	Transfer of Heat - Conduction	How heat transferred by conduction process and about heat conductor- insulators
		Lab 4- Chemistry	Laboratory thermometer	To measure temperature of chemicals with laboratory thermometer
		Heat	Convection and radiation	To learn about radiation process and sea breeze - land breeze
		Heat	Characteristics of woolen clothes	To know about why we wear woolen clothes in winter and white clothes in summer
		Heat	Revision and exercise discussion	To recall all topics and discuss back exercise discussion
		Heat	Written test	To test knowledge and skills of students
		Lab 5- Chemistry	Conduction and convection	To explore conduction and convection process with experiment
		Revision of Ch-1,3	quiz + oral test	To check error
		Revision of Ch-2	Written test	To test knowledge and skills of students
		Revision of Ch-1,2,3	Oral revision for PT-1 examination	Assessment and error tracking
		Ch-4 Acids, Bases and salts	Introduction of Acids and Bases	To know about acidic and basic substances with examples
		Acids, Bases and salts	Difference between acid, base and salts	To learn the difference between acids, Bases and salts with help of examples
		Acids, Bases and salts	Indicators	Use of Indicator and types of indicators (Natural indicators and synthetic indicators)
Acids, Bases and salts	Neutralisation reaction	To learn about neutralisation reaction with chemical name and formula		
JULY	21	Lab 6- Chemistry	litmus test	To test acids and bases with litmus paper
		Acids, Bases and salts	Revision and exercise discussion	To recall all topics and discuss back exercise discussion
		Acids, Bases and salts	Written test	Assessment and error tracking
		Ch-5 Physical and chemical changes	Introduction of Physical and chemical changes	To be able to know about physical and chemical changes
		Physical and chemical changes	Chemical changes	To learn about physical and chemical changes in surrounding like rusting and digestion
		Lab 7- Chemistry	chemical changes experiment with iron and copper	To perform physical and chemical changes by doing experiment in lab
		Physical and chemical changes	Crystallization and Galvanisation	To know about crystallization and galvanisation process

		Physical and chemical changes	Discussion and back exercise discussion	To be able to recall all topics and exercise discussion of ncert book
		Physical and chemical changes	Written test	To test the knowledge skill and aptitude acquired by students
AUGUST	18	Ch-6 Respiration in organisms	Introduction of respiration process and breathing rate	To understand about breathing rate and respiration process with demonstration of students
		Respiration in organisms	Aerobic and anaerobic respiration	Students will be able to learn the difference between aerobic and anaerobic respiration with recation and real life examples
		Lab 8 Biology	Human respiratory system	Demonstration of human respiratory system
		Respiration in organisms	Human respiratory system	To explain the diagram of human respiratory system and inhalation process
		Respiration in organisms	Breathing in other animals	To know about breathing process in insects, frog and cockroarch
		Respiration in organisms	Breathing in fish	To know about breathing process in fish
		Respiration in organisms	Respiration in plants	To learn about respiration process in plants
		Respiration in organisms	Fast heart beat	To discuss extra relevant topic
		Lab 9- Biology	Frog specimen	To demonstrate frog specimen in lab
		Respiration in organisms	Revision and exercise discussion	To recall all topic and discuss back exercise discussion
		Respiration in organisms	Written test	Assessment and error tracking
		Revision of Ch-4	Written test	To test their skills
		Revision of Ch-5	Written test	To test their skills
		Revision of Ch-6	Written test	To test their skills
		Ch-7 Transportation in Plants and animalks	Blood	To learn about different Blood cells and their function
		Lab 10- Biology	Heart model	To demonstrate the model of heart
		Transportation in Plants and Animals	Heart model	Function of heart with diagram
		Transportation in Plants and Animals	Excretory System	To understand excretory system with diagram
SEPTEMBER	16	Activity	Transpiration process	To see transpiration process in plants by doing activity
		Transportation in Plants and Animals	Revision	To recall all topics again
		Transportation in Plants and Animals	exercise	To discuss ncert book back exercise
		Transportation in Plants and Animals	Written test	To test skills
		Ch-9 Motion and Time	Introduction of Motion and types	To recall all types of motion
		Motion and Time	Distance and displacement	To understand the difference between distance and displacement by doing activity
		Lab 11- Physics	Oscillatory motion	To calculate the number of oscillation
		Motion and Time	Speed and uniform motion	To know how we can calculate speed from distance and time, Uniform and non- uniform speed
		Motion and Time	Conversion of speed units	Students will be able to convert unit of speed from km/h to m/s by doing numericals
		Motion and Time	speedometer and odometer	To know about the use of odometer and speedometer
		Motion and Time	Distance-Time graph	To analyze the data and make distance vs time graph
		Motion and Time	Revision and exercise discussion	To recall all topics and back exercise discussion
		Motion and Time	Written test	To test skills
		Revision of Ch-1,2	Oral revision for Half yearly examination	To recall topics and clear their doubts
		Revision of Ch-3,4	Oral revision for half yearly examination	To recall all topics
		Revision of Ch-5,6	Oral revision for Half yearly examination	To recall all topics

		Revision of Ch- 7,9	Oral revision for Half yearly examination	To recall all topics
		Revision of Term -1	Recap	To recall all chapters and clear their doubts
OCTOBER	18	Ch-8 Reproduction in Plants	Sexual and asexual reproduction	To know about the difference between sexual and asexual reproduction with examples
		Lab 12- Biology	Parts of flower	To identify reproductive parts of flower by dissection
		Reproduction in Plants	Asexual reproduction	To identify all methods of asexual reproduction like budding , fragmentation, cutting etc. with their examples
		Reproduction in Plants	Spore formation	To learn about spore formation process and examples of plants which reproduce by spore formation
		Reproduction in Plants	asexual and bisexual flower	students will be able to know the difference between asexual and bisexual flower with examples
		Reproduction in Plants	sexual reproduction	To learn how sexual reproduction occur in plants
		Reproduction in Plants	Seed dispersal	Students will be able to know how seed dispersed from one place to another
		Lab 13- Biology	Germination of seed	Students will be able to know about seed germinate
		Reproduction in Plants	Revision	To revise all topics of chapter
		Reproduction in Plants	exercise	To discuss ncert book back exercise
		Reproduction in Plants	Written test	To test skills
		Ch-10 Electric current and its effects	Introduction of Electricity and current	To learn about electric current, circuit and symbols
		Electric current and its effects	Chemical and magnetic effects of current	Students will be able to know about chemical and magnetic effects of current with examples
		Electric current and its effects	Electric bell	To understand the working construction and uses of electric bell
		NOVEMBER	20	Lab 14- Physics
Electric current and its effects	Electric symbols			To draw the symbols of cell, battery, switch, wire.
Electric current and its effects	Heating effect of current			To understand what is heating effect of current and where it is used
Electric current and its effects	Fuse and MCB			Students will be able to know why fuse are used in electric equipments and use of MCB's
Electric current and its effects	Exercise discussion			TO discuss some extra relevant questions and ncert book exercise
Lab 15- STEM	Magnetic effects of electric current			Students will be able to analyze how magnetic effects of current works
Electric current and its effects	Written test			To test their skills and error
Ch-11 Waste Water story	Sources of water and uses of water			Students will be able to recall all sources of water and its use in daily life
waste water story	waste water treatment plan and sewage treatment			To learn about various ways from which we can treat waste water
waste water story	Water pollution			To find out various reasons of water pollution
waste water story	Water conservation			Students will be able to find out their own ways to save water
Activity	Presentation on water conservation			Students will be able to give presentation on water conservation
waste water story	Exercise			Students will be able to discuss ncert book exercise question
waste water story	Written test			To test skills
Revision of Ch-8,10	Written test			Assessment and error tracking
Revision for PT-3	Oral revision	To recall all chapters and clear their doubts		
DECEMBER	21	Ch- 11 Light	Introduction of Types of mirror and their properties	to recall types of mirror with their characteristics
		Lab 16- Physics	Mirror and lens	To demonstrate both types of mirror and lenses with their characteristics
		Light	Uses of Spherical mirrors	To learn the uses of both types of mirrors
		Light	Reflection, refraction and transmission	To draw the diagram of reflection, refraction and transmission with their daily life uses

DECEMBER	21	Light	Concave and convex lens	To learn about difference between both types of lens and their differentiation with mirror
		Light	Formation of Rainbow and extra questions discussion	to understand the concept of rainadow and will be able to discuss some extra relevant questions
		Light	Written test	To test their learning and error
JANUARY	19	Ch- 12 forests:our lifeline	Introduction of diversity of Plants and animals in forest	To know about various types of plants and animals found in forest
		Forest : our lifeline	Uses of forests and ecosysystem	To learn and identify various uses of forest
		Forest : our lifeline	Exercise and revision	To revise all topics and exercise discussion
		Forest : our lifeline	Written test	To test their learning and error
		Revision of Ch-2,4	Written test	To evaluate the learning
		revision of Ch-3,13	Written test	Assessment and error tracking
		Revision of Ch-6,7	Written test	To evaluate educational achievement
		Revision of Ch-8,9	Written test	To assess the measure of knowledge
		revision of Ch-10,11	Written test	To check the vocabulary and logical thinking
		Revision for PT-4 Examination	Oral revision	To recall all topics for exam preparation
		FEBRUARY	18	Revision of Final term exams
Revision of Final term exams	Oral revision			To recall all topics
Revision of Final term exams	Written test			To train them for exam
Revision of Final term exams	Oral revision			To analyze the error
Revision of Final term exams	Oral revision			To track their knowledge
Doubt class	Discussion of topics			To recall all topics
Revision of Final term exams	Oral revision			Assessment and error tracking
Revision of Final term exams	Oral discussion			To check skills and error