

SCIENCE				
MONTH	NO. OF PERIODS	TOPIC	SUBTOPIC	LEARNING OBJECTIVES
APRIL	19	Ch-1 Crop Production and management	Introduction of crops	students will be able to know about about the different types of crops grown in india and to know about kharif and rabi crops
		Crop Production and management	Agricultural practice	To be able to know about all methods for growing crops
		Crop Production and management	Traditional vs Modern tool	Students will be able to compare how traditional tools for growing crops with modern tools
		Lab 1- Biology	Seed selection	Students will be able to select good seeds by soaking in water
		Crop Production and management	Weedicides, Manure and Fertilizers	To know the function of weedicides and the advantages of manure over fertilizers
		Art Integration Activity	Map	Students will be able to highlight the region in India where different types of kharif and rabi crops are grown
		Crop Production and management	sources and methods of irrigation	students will be able to learn different traditional and modern methods for irrigation in order to conserve water
		Crop Production and management	Harvesting and Storage	To learn different harvesting methods and right method of storage of grains
		Crop Production and management	Revision and Exercise discussion	To revise all topics and discussion of ncert textbook back exercise
		Crop Production and management	Written test	Evaluation of learning
		Lab2- Biology	Bacteria slides	To observe permanent slide of bacteria under microscope
		Ch-2 microorganism : Friend and Foe	Groups of microorganisms	Students will be able to classify all groups of microorganisms like bacteria, fungi, protozoa, algae and virus with example of each diseases
		Microorganisms : friend and Foe	Habitats and usefulness of microorganisms	To learn about Where microorganisms can live and use of microorganisms in daily life
MAY	19	Microorganisms : friend and Foe	Harm of microorganisms	To learn the diseases caused by microorganisms and harmful effects of them
		Microorganisms : friend and Foe	Food Preservation	To Discuss different physical and chemical methods of food preservation
		Microorganisms : friend and Foe	Nitrogen Cycle	To explain how atmospheric nitrogen can be used in soil
		Lab 3- Biology	Microorganisms in pond water	To observe microorganisms in a drop of pond water under a microscope
		Microorganisms : friend and Foe	Revision and Exercise discussion	To recall all topics and ncert bok back exercise
		Microorganisms : friend and Foe	Written test	Assessment and error tracking
		Ch-3 Coal and Petroleum	Introduction about natural resources	To know about natural sources of energy and aim of chapter
		Coal and Petroleum	Natural and exhaustible- inexhaustible resources	To define exhaustible and inexhaustible resources with examples
		Coal and Petroleum	Fossil fuel- Coal	To define fossil fuels and how coal is formed
		Coal and Petroleum	Petroleum	To describe how Petroleum formed
		Activity	Presentation and map	To highlight states of India where petroleum refining occurs and suggest some ways to conserve natural resources of energy
		Coal and Petroleum	Products of Coal	To identify different products obtained from coal and their uses
		Coal and Petroleum	Revision and Exercise discussion	To revise all topics and discussion of ncert textbook back exercise
		Coal and Petroleum	Written test	To Test their learning and skills
revision of CH-1,2	Written test	Assessment and error tracking		
MAY	21	Revision of PT-1 syllabus	Oral test	To recall all topics for PT-1 syllabus
		Ch-4 Combustion and Flame	Combustion	Students will be able to discuss the meaning of combustion and the process of burning
		Lab 4- Chemistry	Candle flame	Students will be able to identify different zones of candle
		Combustion and Flame	Combustible and non- combustible	Students will be able to identify combustible and non combustible substances
		Lab 5- Chemistry	Oxygen supports burning	students will be able to explore with experiment how air supports burning
		Combustion and Flame	Necessary condition for combustion	To know all necessary condition for burning of substances

JULY	21	Combustion and Flame	Revision and Exercise discussion	To recall all topics and ncert book back exercise
		Combustion and Flame	Written test	Assessment and error tracking
		Ch- 6 Reproduction in Animals	Introduction of Reproduction	To be able to learn difference between sexual and asexual reproduction with examples of each
		Reproduction in Animals	Fertilization process and zygote	To be able to know about male and female gamets, external and internal fertilization process and zygote
		Reproduction in Animals	Embryo and IVF	To know the detail about test tube baby and embryo
		Lab 6- Biology	Life cycle of frog	To demonstrate and explain life cycle of frog
AUGUST	18	Reproduction in Animals	Viviporous and oviporous	To learn the examples of viviporous and oviporous with defination
		Reproduction in Animals	Asexual reproduction	To know about different modes of asexual reproduction
		Reproduction in Animals	Revision and Exercise discussion	To revise all topics and discusion of ncert textbook back exercise
		Reproduction in Animals	Written test	Assessment and error tracking
		Revision of Ch-4,5	Written test	Assessment and error tracking
		Revision of PT-2	Oral test	To revise all chapters of PT-2 Syllabus
		Ch-7 Reaching the age of Adolescence	Teenage and Adolescence cahnges	To know about age of Teenages and adolescence with explanation and cahnges occur in body during it
		Activity	Pie chart	To make chart for diet of adolescence
		Reaching the age of Adolescence	Changes during puberty	To know about cahnges in human body at puberty and development of secondary sexual characters
		Reaching the age of Adolescence	Nutritional needs and reproductive health	To about nutritional needs for better reproductive health
		Reaching the age of Adolescence	Harmones	To leran about the role of harmones in human body and name of different segreted harmones
		Reaching the age of Adolescence	Chromosomes and Identification of sex	Students will be able to know how boy or girl can be identified during fertilization and number of chromosomes present in human body
		Lab 8- Physics	Properties of magnet	Students will be able to explore different properties of magnet and their shapes
		Reaching the age of Adolescence	Revision and Exercise discussion	To revise all topics and discusion of ncert textbook back exercise
		Reaching the age of Adolescence	Written test	Assessment and error tracking
Ch-8 Force and Pressure	Definition and effects of force	To define force and effects of force		
Force and Pressure	Types of Force- Contact force	To explain and demonstrate all examples of contact forces with hands on learning		
SEPTEMBE R	16	Force and Pressure	Non Contact force and calculation of force applied	To discuss non contact force sucs as electrostatic, magnetic.
		Force and Pressure	Pressure	To calculate pressure applied on area by doing experiment
		Activity	Tug of war	By playing Tug of War students will be able to know resultant force and magnitude of force
		Lab 9- Chemistry	Fluid pressure	To demonstrate the pressure exerted by liquid on the walls of container
		Force and Pressure	Electroscope and atmospheric Pressure	To explain atmospheric pressure and working of electroscope
		Force and Pressure	Numerical practice	To be able to solve numerical problems based on force and pressure
		Lab 10- Physics	Electroscope	To demonstrate the construction and working of electroscope
		Force and Pressure	Revision and Exercise discussion	To recall all topics and ncert book mexercise
		Force and Pressure	Written test	To track error
		Revision of Ch- 1	Written test	To Test their learning and skills
		Revision of Ch-2	Written test	Evaluation of learning
		Revision Of Ch- 3	Written test	Assessment and error tracking
		Revision of Ch-4	Written test	To test learning
		Revision of Ch-5	Written test	Assessment and error tracking
Revision of Ch-6	Written test	to assess the concepts		

		Revision of Ch-7	Written test	Evaluation of learning
OCTOBER	18	Revision of Ch-8	Oral test	To recall all topics
		Revision for Half yeraly exam	Oral revision	To revise all chapters for half yearly exam preparation
		Revision of Half yearly exam	Oral revision	To revise all chapters again
		Ch- 9 Friction	Introduction of Friction	students will be able to leran about the meaning of friction and how it is related to force and pressure
		Lab 11- STEM	Effectrs of surface	To explore how smooth and rough surface affect the speed of friction
		Friction	factors effecting friction	Students will be able to identify and explore all possible factors which can affect friction
		Friction	Types of friction	
		Lab 12- Physics	spring balance	To be able learn measurement of friction with help of spring balance
		Friction	Causes and types of friction friction	students will be able to know about the causes of friction applied
		Friction	advantages and disadvantagesof friction	students will be able to explore various advantages and disadvantages of friction with real life examples
NOVEMBE R	20	Friction	types of friction	students will be able to understand all types of friction with examples
		Lab 13-STEM	Roling and sliding friction	To explore rolling and sliding friction
		Friction	Friction in real life	To discuss various real life examples of friction and application of it
		Friction	Revision and Exercise discusssion	To recall all topics and ncert book exercise
		friction	Written test	Evaluation of learning
		Ch- 12 some Natural Phenomena	Introduction of static charges and iscovery	Students will be able to know about static charge and how it differ from electric charge and how discovered it
		Some Natural Phenomena	Transfer of charges	To explore how cahрге transfer from one medium to another
		lab 14 - activity	electrostatic charge	Explore positive and negative charge by doing experiment with hair and comb
		Some Natural Phenomena	Electroscope	To discuss the working of electroscope
		Some Natural Phenomena	Lightening and thunderstorm	To know about the process of lightening and thunderstorm with their precautions
		Some Natural Phenomena	Earthquake and Revision	To know the process of earthquake and recall all topics again
		Some Natural Phenomena	Written test	Assessment and error tracking
		Ch-11 Chemical effects of electric current	Conductors, insulators and LED	To recall the concept of electric conductors, insulators and LED
		Chemical effects of electric current	Electroplating	to understand the function of chemical in cell and how electroplating process works with their application
		lab 15- Physics	Chemical effects of electric current	To demonstrate chemical effects of electric current by using copper rods
DECEMBE R	21	Chemical effects of electric current	exercise discussion and revision	To revise all topics and discusion of ncert textbook back exercise
		Chemical effects of electric current	Written test	Evaluation of learning
		Revision of Ch-9	Oral test	Assessment and error tracking
		Revision of Ch-11,12	Written test	To revise the syllabus
		Revision of PT-3 Syllabus	Oral test	to revise syllabus for PT-3 exam
		Ch-13 Light	Mirror	Students will be able to recall the characteristics of different types of mirror
		Lab 16- Physics	Concave and convex mirror	to observe physical appearance of Both types of mirror and Lens
		Light	Reflection and law of Reflection	To understand about concept of reflection with diffused and regular reflection and derivation of laws of reflection with diagram
		Light	Muliple reflection	To understand concept of multiple reflection with their applications
		Lab - 17 STEM	Human Eye And Kaleidoscope	To demonstrate the model of Eye and kaleidoscope based on multiple reflection
		Light	Revision and Exercise discusssion	To recall all topics and ncert book exercise discussion
		Light	Written test	To analyze the error and practice of diagram

JANUARY	19	Ch-10 Sound	Introduction of sound with properties	to know about propagation of sound with properties
		Lab 17- Physics	Tuning fork	To analyze the sound of tuning forks having different frequencies with their application
		Sound	Wave nature of sound	To discuss the formation of wave by production of sound
		sound	Audible sound and noise	to know about audible range of human beings and difference between music and noise
		Sound	Noise Pollution	To find out the causes of noise pollution and their prevention
		Sound	exercise discussion and revision	To recall all topics of Sound and ncert book back exercise discussion
		Sound	Written test	Assessment and error tracking
FEBRUARY	18	Lab 18- Physics	Sound waves	To explore sound waves by producing sound in a fluid
		Revision of Ch-1,4	Oral test	To recall chapter again
		Revision of Ch-2,6	Oral revision	To recall chapter again
		Revision of Ch-7,9	Oral revision	To recall chapter again
		Revision of Ch- 11,12	oral revision	To recall chapter again
		Revision of Ch-10,13	Oral revision	To recall chapter again
		Revision of Ch-8	Written test	Assessment and error tracking
		revision for PT-4 Examination	Oral revision	To revise PT-4 Syllabus
		Revision of Final term examination	Oral revision	To revise final term examination syllabus
		Revision of Final term examination	Oral revision	To revise final term examination syllabus
		Revision of Final term examination	Written test	To revise final term examination syllabus
		Revision of Final term examination	oral revision	To revise final term examination syllabus
		Revision of Final term examination	oral revision	To revise final term examination syllabus