

sr. no.	Month	Topic or subtopic	No. of Periods	Objectives	Learning outcomes	Teaching aids	Activity or practice	Exam S.A.I
	April	Crop production and management - Agricultural practices - Basic properties of crops production - Agricultural Implements - Traditional method of Irrigation	08	Crops and difference between Kharif and rabi crops. - Basic crop production practices. - preparation of soil - sowing of seed - Irrigation - Weeding and crop production - Animal Husbandary	- makes efforts to apply daily life - understanding of envt. & steps to consume conserve it in order to contribute to production of environment	ppt, crops, seeds		SA-I
	June	Micro-organisms: Friend and Foe. - Micro-organisms - where do micro-organisms live? - Commercial / Medical use of microorganisms - Vaccine - Disease causing micro-organisms in Humans / Animals - Food preservation - Nitrogen cycle.	08	Difference between micro-organisms and Viruses to establish reproduces only in the host body. - List examples of diseases in human plants and animals caused by micro-organisms in order to explain harmful effects of micro-organisms.	Explain role of antibiotics in order to demonstrate the medical use of the micro-organisms. - Explain the role of micro-organisms in increasing the fertility of soil	Yeast ppt,	different structures of micro-organisms	SAI

sr no	month	Topic / subtopic	No. of Periods	objectives	Learning outcomes	Teaching Aids	Activity or practical	Exam
	June	<ul style="list-style-type: none"> Coal and petroleum flame Inexhaustible Natural resources Exhaustible natural resources story of coal and petroleum Natural gas Some natural resources are limited 	10	<ul style="list-style-type: none"> - classify natural resources based on their ability to replenish in order to - distinguish between inexhaustible and exhaustible natural resources. - classify different constituents of petroleum according to their use in daily life. 	<ul style="list-style-type: none"> - differentiates different petroleum products - classify natural resources based on their ability to replenish in order to distinguish between exhaustible and inexhaustible. 	Gal, Magnesium wire candle	Burning of mg wire to form magnesium wire with bright dazzling light	SAI
	July	<ul style="list-style-type: none"> Combustion and Flame What is Combustion. How do we control fire? Types of Combustion structure of flame What is fuel fuel efficiency 	10	<ul style="list-style-type: none"> - Explain the process of combustion in order to describe the role of fuel & oxygen in process of as necessary condition for combustion to take place ignition temp - Explain different parts of flame 	<ul style="list-style-type: none"> Construct models using materials from surrounding & explain their working such as fire extinguish Scientific concepts in day-to-day life - makes efforts to protect environment 	Coal wire of mg.	Burning of mg wire	SAII

Sr.no	Month	Topic / sub-topic	No. of periods	Objectives	Learning outcomes	Teaching Aids	Activity or practice.	Exam
	July	Force and pressure - force - A push or pull - forces are due to Interaction - A force can change the state of motion Shape of object	08	- classify common actions involving motion of object as push or pull in order to define force. - Discover direction of applied by liquid to conclude that liquids exerts pressure on wall of containers.	Explain force and pressure by taking day to-day life examples.	magnets	To show experimentally - A liquid exerts pressure on walls of container. - Attraction and repulsion between two magnets	
	August	Friction - Force of Friction. - factor affecting friction - Increasing and Reducing friction	10	The students will be able to understand the - friction - know the factors affecting friction - Different types of friction. - Understand the advantages and disadvantages of friction.	The students will be able to understand the - Differentiate Contact and non-contact forces. - Applies learning of scientific concepts in daily life.			SAI

sr.no	Month	Topic	sub-topic	No. of periods	Objectives	Learning outcomes	teaching aids	Activity Practice	exam
	September	Sound		11	<ul style="list-style-type: none"> -The students will be able to understand the sound -Some liquids are good conductors of electricity. -propogation of sound in medium -know units of velocity, frequency, wavelength 	Explain process of propogation of sound.	ppt Video	To show experimentally sound travelling through water	SA-I
	October	Conservation of plants and animals.		12	<ul style="list-style-type: none"> -The students will be able to understand the deforestation and its causes and consequences -know the biosphere -understand the flora and fauna & different examples 	Describe how drought are caused due to elaborate the consequences of deforestation.			SA-I
	November	Reproduction in Animals		13	<ul style="list-style-type: none"> -The students will be able to understand mode of reproduction. -Understand male and female Reproductive system. -Understand about Internal external fertilization 	Differentiates Viviparous & oviparous animals.	ppt Video		SA-I
					<ul style="list-style-type: none"> -deforestation & its causes -Consequence of deforestation -forest and wildlife -flora & fauna -migration 	<ul style="list-style-type: none"> - Interpret the imp. of Red Data Book. 			
					<ul style="list-style-type: none"> - modes of reproduction - development of an Embryo - Viviparous & oviparous. 				

Sr no	month	Topic / Sub-topic	No. of periods	Objectives	Learning outcomes	teaching aids	Activities / Practical	Exam
	Dec	<ul style="list-style-type: none"> *Chemical effects of electric current - Do liquid conduct electricity - chemical effects of electric current - Electroplating 		<ul style="list-style-type: none"> The students will be able to understand - some liquids are good conductors of electricity - Understand chemical effects of electric current 	Distinguish between the good and poor conductors of electricity	electrodes, battery, cell, wires	To show experimentally passing of current through water - circuit showing electroplating	SA II
	Jan	<p>Some Natural phenomena.</p> <ul style="list-style-type: none"> - lightning 		<p>Real examples of visible sparks in order to explain the phenomena of lightning.</p> <ul style="list-style-type: none"> - Examine the sequence of lightning occurring in clouds in order to explain advantages of earthing of electric circuit in household. 	Explain the process of phenomenon to develop scientific develop skill	ppt, videos	students check whether like poles attract or repel	SA II
	March	<ul style="list-style-type: none"> - charging by rubbing - Types of charges - Transfer of charge - lightning - Earthquakes - protection against earthquakes. 						

Sr.no	Month	Topic or subtopic	No. of periods	Objectives	Learning outcomes	Teaching aids	Activity or practice	Exam
	Feb	<p>Light</p> <ul style="list-style-type: none"> - what makes things visible - law of Reflection - Regular and diffused reflection - Multiple images - Kaleidoscope - what is inside our eye 	11	<p>Conclude law and represent it by drawing identifying incident ray, reflected ray and normal ray. Illustrate with line diagram how images invert when reflecting from a mirror in order to the applications.</p>	<p>The students will be able to understand.</p> <ul style="list-style-type: none"> - law of reflection - know the things visible. - Understand the regular and diffused Reflection. 	ppt, textbook	<p>To know experimentally</p> <ul style="list-style-type: none"> - angle of incidence and angle of Reflection ($\angle i = \angle r$) 	SA-II
	March	<p>Reaching the age of Adolescence</p> <ul style="list-style-type: none"> - Adolescence and puberty - Role of Hormones in initiating Reproductive function - Reproduction phase of life in Humans - Hormones other than sex hormones. 	12	<p>Explain the growth in male and female body at puberty.</p> <ul style="list-style-type: none"> - Summarize functions of sex and other hormones to establish their role secondary sexual characteristics. - Describe mensturation, menarche and menopause to explain reproductive phase 	<p>Role of hormones in Initiating</p> <ul style="list-style-type: none"> - Reproductive function. - know about various functions performed by different endocrine glands, changes during puberty. - They would be made aware about adolescent problems. 	Textbook ppt	-	SA-II