

Subject : Science
Grade : VII
Year : 2018-19

Year Planner

Text book used: Science Now Revised (Collins)

Month	Units	Sub- Units	Objectives	Activities Planned	Evaluation
March/April (18)	3. The World of Living	Lesson: 8 Soil	<ul style="list-style-type: none"> Understand the soil formation, profile, composition and properties Types of soil and their suitability for crops soil erosion and pollution 	<p>Text book activity</p> <ul style="list-style-type: none"> To calculate the amount of water absorbed by different soils. 	Worksheet-1
	7. Natural Resources	Lesson:17 Forest: Our Lifeline	<ul style="list-style-type: none"> Profile of forest and their uses. Interdependence of plants and animals. Destructions of forests and conservation of forest. 	<ul style="list-style-type: none"> Group discussion Preparing posters on 'Save paper' in the notebook. 	
June (21)	2.Materials 1.Food	Lesson: 3 Fibre to Fabric Lesson:1 Nutrition in Plants	<ul style="list-style-type: none"> Identify the sources of wool Describe the steps involved in wool production and hazards associated with it. Draw and explain the life cycle of silk moth. Describe the process of sericulture. How autotrophic plants make food by photosynthesis. Heterotrophic nutrition in plants. 	<ul style="list-style-type: none"> Watch videos on wool production and sericulture Flame test to identify natural and artificial fibres - Lab activity Lab activities in textbook To demonstrate presence of starch in a leaf after photosynthesis. 	Slip test-1 Worksheet -2

	2. Materials	Lesson:6 Heat and Temperature	<ul style="list-style-type: none"> Identify the requirements for flow of heat Identify types of thermometers Know how to measure heat Understand the difference between conduction, convection and radiation 	Text book Lab activity <ul style="list-style-type: none"> Lab activity to show the process of conduction, convection and radiation 	Worksheet-3 Slip test-2
July (24)	1.Food	Lesson: 2 Nutrition in Animals	<ul style="list-style-type: none"> Identify the stages of nutrition in animals. Identify the types of teeth in humans. Describe the process of digestion in humans and ruminants. 	<ul style="list-style-type: none"> Role play on digestion in humans 	Revision Worksheet-1 Periodic Test-I.
	2.Materials	Lesson:4 Chemicals and Chemical Changes	<ul style="list-style-type: none"> Differentiate between elements, compounds and mixtures Identify chemical formulae and symbols Identify types of changes and their applications 	<ul style="list-style-type: none"> Demonstration of chemical reactions and crystallization. 	Worksheet -4
August (21)	2.Materials	Lesson:5 Acids Bases and Salts	<ul style="list-style-type: none"> Identify the properties of acids, bases and salts. Understand indicators and how salts are formed. 	<ul style="list-style-type: none"> Test of acids and bases using litmus and pH paper. Observe Neutralization reactions. 	Worksheet-5 Slip test-4

	6. Natural Phenomena	Lesson: 14 Wind and Storm	<ul style="list-style-type: none"> • Differentiate between storms, cyclones and tornadoes. • Understand the formation of wind. • Understand why wind currents are formed <p>Identify safety measures to be taken during these natural disasters.</p>	Activity to show how high speed wind reduces air pressure.	Worksheet-6
September (10)	Revision	Revision	Half Yearly Examination		Subject Enrichment Assessment-I RevisionWorksheet-2
October (15)	2.The World of Living	Lesson:9 Respiration in Organisms	<ul style="list-style-type: none"> • Differentiate the organs for breathing in animals. • Identify the respiratory organs in humans and the path of respiration. • Compare aerobic and anaerobic respiration. • Understand the breathing in plants. 	<ul style="list-style-type: none"> • Model making to show the working of lungs and diaphragm 	Worksheet-7

	6. Natural Phenomena	Lesson:15 Light	<ul style="list-style-type: none"> Identify the properties of light, reflection and refraction by using mirrors and lens. Differentiate between the mirrors and lenses and their applications. Appreciate the principle of Newton's disc 	<ul style="list-style-type: none"> Identifying persistence of vision with Newton's disc Formation of Images by lens and mirrors 	
November (19)	5. How Things Work	Lesson:13 Electric Current and its Effects	<ul style="list-style-type: none"> Understand what electricity is and components of electric circuit. Draw circuit diagrams. Study the magnetic effects of current. Study the applications of electric current. 	<ul style="list-style-type: none"> Model making: Construct a Solenoid and observe its magnetic effect 	Worksheet -8 Slip Test-5
	7. Natural Resources	Lesson:16 Water	<ul style="list-style-type: none"> Identify forms, uses and sources of water. list and explain the causes of water scarcity. list the steps to conserve water. 	<ul style="list-style-type: none"> Group Activity: Soft board decoration with the Posters on Conservation of Water 	Worksheet-9
December (22)	3.The World of the Living	Lesson:11 Reproduction in Plants	<ul style="list-style-type: none"> Identify different types of reproduction in plants and compare them Identify agents of pollination and seed dispersal methods 	<ul style="list-style-type: none"> Observation of vegetative reproduction in plants in lab Dissection of flower 	Worksheet -10 Slip Test -6

	4. Moving Things People and Ideas	Lesson:12 Time and Motion	<ul style="list-style-type: none"> • Understand the need to measure time • Identify the types of motion and plot graphs • Calculate speed 	<ul style="list-style-type: none"> • Plotting a graph on uniform and non-uniform motion. Measurement of time period 170) 	Revision Worksheet:3
January (19)	2.The World of the Living	Lesson:10 Transportation of substances	<ul style="list-style-type: none"> • Understand the importance of transport of substances in a living body. • Identify the organs of circulatory system and their functions. • Understand the transportation of substances in plants. • Recognize the organs or excretory system and their functions. 	<ul style="list-style-type: none"> • To examine the effect of exercise on heartbeat and pulse rate. 	Worksheet-11 Periodic Test III Subject Enrichment Assessment-2
February (22)	7. Natural Resources	Lesson:18 Waste Water Management	<ul style="list-style-type: none"> • Recognize the sources of waste water. • Identify the steps involve in waste water treatment. • List the alternative methods of waste water management. 	<ul style="list-style-type: none"> • Watch visuals on Waste Water Management. 	Worksheet-12 Revision Worksheet-4
March (7)					ANNUAL EXAM