

BCM SCHOOL**A Senior Secondary School Affiliated To CBSE, New Delhi****CLASS --VIII (2020-2021)****SYLLABUS, BOOK --NCERT SCIENCE****SUBJECT --SCIENCE**

Month/P eriod	Theme	Concept/Skill	Inculcation	Integrated Activity	Assessment	Learning outcome	Internal Assessment
April 4 Periods	Valenices, radicals, making the formula, naming the compounds	<ul style="list-style-type: none"> • Analytical skill • Understanding skill • Thinking skill 	<ul style="list-style-type: none"> • Periodic table • Educomp content 	<ul style="list-style-type: none"> • To make a chart of valencies and radicals. 	<ul style="list-style-type: none"> • Written Test 	Knowledge about the valencies and radicals of different elements.	
7 Periods	Ch-1 Crop production & Management	<ul style="list-style-type: none"> • Thinking skill • Social skill • Decision making • Observation skill 	<ul style="list-style-type: none"> • Educomp content • Situational props 	<ul style="list-style-type: none"> • To separate the healthy seeds from the damaged ones. 	<ul style="list-style-type: none"> • Oral test 	Knowledge about various agricultural practices.	
7 Periods	Ch-2 Micro- organisms: Friend & Foe	<ul style="list-style-type: none"> • Critical thinking • Reasoning skill • Effective communication • Observation skill 	<ul style="list-style-type: none"> • Educomp content • Permanent slides of different microorganisms 	<ul style="list-style-type: none"> • To study permanent slides of different micro-organisms under microscope. • To show the fermentation process • Declamation on sanitation and its relation to human health. (With Physical Education) • To show the root nodules of leguminous plants. 	<ul style="list-style-type: none"> • Test of Diagrams 	Awareness about the useful and harmful microorganisms.	
6 Periods	Ch-3 Synthetic fibres & Plastics	<ul style="list-style-type: none"> • Critical thinking • Analytical skill • Environmental awareness 	<ul style="list-style-type: none"> • Educomp content • Different types of fibres 	<ul style="list-style-type: none"> • To show the water absorbing capacity of different fabrics.(With W.E) 	<ul style="list-style-type: none"> • Oral test • Worksheet 	Knowledge about different types of fibres & plastics	

		<ul style="list-style-type: none"> • Effective communication 	&plastics				
May 8 Periods	Ch-4 Metals and non-metals	<ul style="list-style-type: none"> • Critical thinking • Observation skill • Analytical skill 	<ul style="list-style-type: none"> • Educomp content • In-text questions 	<ul style="list-style-type: none"> • To test the nature of metallic and non-metallic oxides. • To show the displacement reaction. 	<ul style="list-style-type: none"> • Test of equations. • Oral test 	Knowledge of physical and chemical properties of metals and non-metals.	Weekly Test-I (Chapter-1&2)
6 Periods	Ch-5 Coal & Petroleum	<ul style="list-style-type: none"> • Critical thinking • Reasoning skill • Environmental awareness 	<ul style="list-style-type: none"> • Educomp content 	<ul style="list-style-type: none"> • To show the videos related to fractional distillation. 	<ul style="list-style-type: none"> • Written test 	Knowledge about the formation of coal and petroleum.	
7 Periods	Ch-6 Combustion & Flame	<ul style="list-style-type: none"> • Critical thinking • Environmental awareness 	<ul style="list-style-type: none"> • Educomp content • In-text questions 	<ul style="list-style-type: none"> • To study the various zones of a candle flame. (With Arts) • To study ignition temperature by boiling water in a paper cup. 	<ul style="list-style-type: none"> • Oral test • Worksheet 	Awareness about combustion, conditions for combustion and the use of fire extinguishers.	
June	Summer vacation						
July 8 Periods	Ch-8 Cell structure & functions	<ul style="list-style-type: none"> • Critical thinking • Reasoning skill • Inter personal skills • Observation skill • Effective communication 	<ul style="list-style-type: none"> • Educomp content • Different slides of microorganism 	<ul style="list-style-type: none"> • To make the slides of human cheek cell and onion peel. • To show permanent slides of plant and animal cell. • Role play on different cell organelles. 	<ul style="list-style-type: none"> • Test of diagrams 	Understanding the Difference between the structure of plant cell, animal cell, .	Holiday's Home Work
5 Periods	Ch-11 Force & Pressure	<ul style="list-style-type: none"> • Observation skill • Creative thinking • Problem solving 	<ul style="list-style-type: none"> • Educomp content • Situational props 	<ul style="list-style-type: none"> • To show that liquids exert pressure on all sides of a container. • To show that liquids exert equal pressure at the same depth. • To demonstrate magnetic 	<ul style="list-style-type: none"> • Test of Numericals 	Knowledge about different terms related to force and pressure.	Weekly Test-II (Chapter-3&4)

				force.			
August 7 Periods	Ch-12 Friction	<ul style="list-style-type: none"> Reasoning skill Decision making Inter personal skills 	<ul style="list-style-type: none"> Educomp content 	<ul style="list-style-type: none"> To show the difference between static, sliding and rolling friction. 	<ul style="list-style-type: none"> Written test 	Understanding the concept of friction and its types. How to increase friction and how to reduce friction.	N.B, L.M and lab activity Periodic Test-I (Chapter-5,6,8 & making the formula, naming the compounds)
Septemb er	MID TERM EXAMINATION						Syllabus:- From April to August
October 4 Periods	Valenices, radicals, making &naming the formula	<ul style="list-style-type: none"> Observation skill Analytical skill Understanding skill Thinking skill 	<ul style="list-style-type: none"> Periodic table Educomp content 	<ul style="list-style-type: none"> To make a chart of valencies and radicals 	<ul style="list-style-type: none"> Written Test 	Knowledge about the valencies and radicals of different elements.	
7 Periods	Ch-9 Reproduction in animals	<ul style="list-style-type: none"> Reasoning skill Seif awarenesssl Observation skill Critical thinking Decision making 	<ul style="list-style-type: none"> Educomp content In-text questions 	<ul style="list-style-type: none"> To study the chart showing the metamorphosis process. To observe the slides of budding and binary fission. 	<ul style="list-style-type: none"> Oral test Worksheet 	Knowledge of different methods of reproduction.	
7 Periods	Ch-10 Reaching the age of adolescence	<ul style="list-style-type: none"> Reasoning skill Managing emotions Observation skill Self-awareness Effective communication 	<ul style="list-style-type: none"> Educomp content In-text questions 	<ul style="list-style-type: none"> To show the chart of endocrine glands. Talk by a doctor to explain the importance of reproductive health and personal hygiene. (With Physical Education& Yoga) 	<ul style="list-style-type: none"> written test 	Awareness about the various changes taking place in the body during adolescence period and importance of personal hygiene	
Novemb er 8 Periods	Ch-7 Conservation of Plants and Animals	<ul style="list-style-type: none"> Environmental awareness Observation skill Critical thinking 	<ul style="list-style-type: none"> Educomp content In-text questions 	<ul style="list-style-type: none"> To show the PPT related to endangered animals, causes and how to redeem them. 	<ul style="list-style-type: none"> Oral test 	Awareness of importance of conservation of the plants and animals.	Weekly Test-III (Chapter-9&10)
7 Periods	Ch-13 Sound	<ul style="list-style-type: none"> Creative thinking 	<ul style="list-style-type: none"> Educomp content 	<ul style="list-style-type: none"> To show that sound needs a medium to propagate. 	<ul style="list-style-type: none"> Test of Numericals 	Knowledge about the noise, noise pollution,	

		<ul style="list-style-type: none"> • Problem solving skill • Decision making • Problem solving • empathy 	<ul style="list-style-type: none"> • In-text questions • Situational props 	<ul style="list-style-type: none"> • To study the structure of human ear. • Visit to school music room to identify the vibrating parts in various musical instruments.(With music) • To make a musical instrument using waste material. (W.Experience) • To make a Jal Tarang. (With Music) 		its harmful effects and how to reduce it.	
7 Periods	Ch-14 Chemical effects of electric current	<ul style="list-style-type: none"> • Observation skill • Analytical skill • Critical thinking • Decision making 	<ul style="list-style-type: none"> • Experimentation • Educomp content • In-text questions 	<ul style="list-style-type: none"> • To show the process of electroplating and electrolysis. • To make a simple tester. 	<ul style="list-style-type: none"> • Oral test based on experiment 	Understanding the process of electroplating and electrolysis	
December 7 Periods	Ch-15 Some Natural Phenomenon	<ul style="list-style-type: none"> • Reasoning skill • Environmental awareness • Observation skill • Critical thinking • Effective communication • Empathy 	<ul style="list-style-type: none"> • Educomp content • In-text questions • A simple electroscope. 	<ul style="list-style-type: none"> • To show the working of a simple electroscope. • To show electrostatic force. 	<ul style="list-style-type: none"> • Oral test • Question framing 	Understanding the concepts related to lightning, thunderstorm and earthquake	Periodic Test-II (Chapter-7,13,14,15)

8 Periods	Ch-16 Light	<ul style="list-style-type: none"> • Thinking skill • Problem solving skill • Observation skill • Self-awareness • Effective communication • Empathy 	<ul style="list-style-type: none"> • Educomp content • In-text questions • Situational props • Model of human eye 	<ul style="list-style-type: none"> • To verify the laws of reflection. • To show multiple reflection & persistence of vision. • To study the structure of human eye with the help of a model. • To make a kaleidoscope & periscope. 	<ul style="list-style-type: none"> • Test of Diagrams 	Knowledge of reflection of light and parts of eye and its care	
7 Periods	Ch-17 Stars & The Solar System	<ul style="list-style-type: none"> • Observation skill • Decision making • Problem solving 	<ul style="list-style-type: none"> • Educomp content • In-text questions. 	<ul style="list-style-type: none"> • To study the solar system. (With Arts) 	<ul style="list-style-type: none"> • Oral test • Worksheet 	Knowledge about the solar system.	
January 8 Periods	Ch-18 Pollution of Air & Water	<ul style="list-style-type: none"> • Environmental awareness • Observation skill • Critical thinking • Decision making 	<ul style="list-style-type: none"> • Educomp content • In-text questions. 	<ul style="list-style-type: none"> • To make a water filter. 	<ul style="list-style-type: none"> • Oral test 	Awareness about the causes of air and water pollution and how to control them.	N.B, L.M and lab activity Weekly Test-IV (CH-16,17)
February	FINAL EXAMINATION						Syllabus from October to February & Chapters 4,8,11,12 from Term -1