

BCM SCHOOL**A Senior Secondary School Affiliated To CBSE, New Delhi**

CLASS→VII (2020-21) SYLLABUS, BOOK→NCERT, A TEXT BOOK OF SCIENCE SUBJECT→SCIENCE

Month/Period	Theme	Concept/Skill	Inculcation	Integrated Activity	Assessment	Learning outcome	Internal Assessment
April 2Periods	Valencies & Radicals	<ul style="list-style-type: none"> Analytical skill Classifying 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. 	<ul style="list-style-type: none"> Test 	Knowledge about the valencies and radicals of different elements.	
8 Periods	Ch-1 Nutrition in plants	<ul style="list-style-type: none"> Environmental awareness Reasoning skill Critical thinking skill Observation skill 	<ul style="list-style-type: none"> Educomp content Uploaded videos 	<ul style="list-style-type: none"> To show the saprophytic mode of nutrition To study the specimen of pitcher plant. To show the stomata present on the surface of leaf. 	<ul style="list-style-type: none"> Question framing Flow chart 	Knowledge about different plants and their nutrition.	
8 Periods	Ch-2 Nutrition in animals	<ul style="list-style-type: none"> Critical thinking skill Analytical skill Environmental awareness Observation skill Decision making skill. 	<ul style="list-style-type: none"> Educomp content Model of tooth structure Uploaded videos 	<ul style="list-style-type: none"> To show the model of human digestive system and types of teeth. To show the effect of saliva on starch. Discussion on dental care and 	<ul style="list-style-type: none"> Test of diagrams Oral test 	Knowledge about human digestive system.	

				harms of skipping meals			
May 7 Periods	Ch-3 Fibre To Fabric	<ul style="list-style-type: none"> Reasoning skill. Observation skill. Classifying skill. Creative and critical thinking. Decision making. 	<ul style="list-style-type: none"> Educomp content Uploaded videos Samples of different types of fabrics. 	<ul style="list-style-type: none"> To study the life cycle of silk moth with the help of a chart. (With Arts) Sample of different types of fabric in scrap book. (With w.Exp.) 	<ul style="list-style-type: none"> Concept Map Oral test 	Understanding about different fibres and their manufacturing.	Weekly test-1 (syllabus ch 1 and ch 2)
9 Periods	Ch-4 Heat	<ul style="list-style-type: none"> Critical thinking Creative thinking Decision making. Reasoning skill 	<ul style="list-style-type: none"> Educomp content Discussion Uploaded videos 	<ul style="list-style-type: none"> To show the process of conduction in water. To show the clinical, laboratory and digital thermometer. 	<ul style="list-style-type: none"> Flow chart 	Students will come to know about the different types of thermometers and different process of heat transfer.	
9 Periods	Ch-5 Acids, bases and salts	<ul style="list-style-type: none"> Critical thinking skill. Creative thinking. Decision making. Social skill 	<ul style="list-style-type: none"> Educomp content Uploaded videos 	<ul style="list-style-type: none"> To test the nature of given solution using different indicators. To demonstrate a neutralization reaction. To prepare the china rose indicator. 	<ul style="list-style-type: none"> Group discussion. Oral test 	Awareness about different acids, bases, salts and indicators. Awareness about neutralization reactions and its use in daily life.	
June	Summer						

	vacation						
July 8 Periods	Ch-6 Physical and chemical changes.	<ul style="list-style-type: none"> • Critical thinking • Reasoning skill • Social skills. • Observation skill 	<ul style="list-style-type: none"> • Educomp content • Uploaded videos 	<ul style="list-style-type: none"> • To study the reaction between copper sulphate solution and iron. • To show the burning of magnesium ribbon. • To show the process of crystallization. 	<ul style="list-style-type: none"> • Objective test. • Summarizing. 	Understanding the different types of physical and chemical changes..	H.H.W
8 Periods	Ch-7 Weather, climate and adaptation	<ul style="list-style-type: none"> • Thinking skill • Social skill • Decision making. • Problem solving. • Observation skill 	<ul style="list-style-type: none"> • Educomp content • Situational props • Uploaded videos 	<ul style="list-style-type: none"> • To show the adaptations of different animals with the help of uploaded videos. 	<ul style="list-style-type: none"> • Question framing 	Knowledge about various places and their climate.	Weekly test-2 (syllabus ch 3 and ch 4)
August 8 Periods	Ch-8 Wind, storms and cyclones	<ul style="list-style-type: none"> • Social skill. • Critical thinking. • Decision making. • Problem solving. 	<ul style="list-style-type: none"> • Educomp content • Situational props • Uploaded videos 	<ul style="list-style-type: none"> • To demonstrate that air exerts pressure. • To demonstrate that high speed winds are accompanied by reduced air pressure. • To show that air expands on heating. 	<ul style="list-style-type: none"> • Oral test 	Knowledge about different terms related wind, storms and cyclones.	Note book evaluation Lab Manual & Lab. Activity Periodic test -1 Syllabus for periodic test: ch 5, 6, 7 and valencies and radicals))

				<ul style="list-style-type: none"> • Making paper planes to relate streamlined shape of its body for its smooth flight. 			
8 Periods	Ch-9 Soil	<ul style="list-style-type: none"> • Creative thinking. • Effective communication. • Decision making. • Problem solving. • Observation skill 	<ul style="list-style-type: none"> • Educomp content • Discussion • Uploaded videos 	<ul style="list-style-type: none"> • To show the different layers of soil. 	<ul style="list-style-type: none"> • Group discussion 	Understanding the concept of soil erosion and its prevention.	
September	MID TERM EXAMINATION	<ul style="list-style-type: none"> • Syllabus:- From April to August 					
October 4 Periods	Valencies & Radicals	<ul style="list-style-type: none"> • Analytical skill • Classifying skills. • Understanding skill • Thinking skill 	<ul style="list-style-type: none"> • Periodic table • Educomp content 	<ul style="list-style-type: none"> • To make a chart. 	<ul style="list-style-type: none"> • Test 	Knowledge about the valencies and radicals of different elements.	
8 Periods	Ch-10 Respiration in organisms	<ul style="list-style-type: none"> • Self-awareness • Decision making. • Observation skill • Critical thinking • Managing emotions. • Coping with stress. 	<ul style="list-style-type: none"> • Educomp content • In-text questions • Discussion • Uploaded videos 	<ul style="list-style-type: none"> • To show that exhaled air contains carbon dioxide. • To prepare a model showing the mechanism of respiration. • Declamation on merits of active 	<ul style="list-style-type: none"> • Flow chart • Oral test 	Understanding the mechanism of respiration in different organisms.	

				participation in sports on one's physical fitness. (With Physical education & Yoga)			
10 Periods	Ch-11 Transportation in plants and animals	<ul style="list-style-type: none"> • Problem solving. • Decision making. • Observation skill • Self-awareness 	<ul style="list-style-type: none"> • Educomp content • In-text questions • Discussion • Uploaded videos 	<ul style="list-style-type: none"> • To study the model of human circulatory system and human excretory system. • Declamation on need of regular exercises and inculcating healthy habits for healthy heart. (With Physical education) 	<ul style="list-style-type: none"> • Oral test • Diagrams test 	Knowledge about human circulatory system and human excretory system and awareness about the healthy habits.	
November 8 Periods	Ch-12 Reproduction in plants	<ul style="list-style-type: none"> • Critical thinking. • Problem solving skill • Creative thinking. • Effective communication. 	<ul style="list-style-type: none"> • Educomp content • In-text questions • Discussion • Situational props • Uploaded videos 	<ul style="list-style-type: none"> • To show the various parts of a flower. (With Arts) • To show the bryophyllum leaf. • Visit to school garden and discussion with gardener to show methods of planting plants of different kinds. 	<ul style="list-style-type: none"> • Concept Mapping. 	Knowledge about different methods of asexual and sexual reproduction in plants.	Weekly test-3 (Syllabus ch 10, ch 11)

7 Periods	Ch-13 Motion & Time	<ul style="list-style-type: none"> • Observation skill • Analytical skill • Critical thinking • Creative thinking 	<ul style="list-style-type: none"> • Experimentation • Educomp content • Uploaded videos • In-text questions • Discussion 	<ul style="list-style-type: none"> • To calculate the time period of a simple pendulum. 	<ul style="list-style-type: none"> • Practice of graphs • Numerical practice 	Understanding the concept of motion, its types, distance-time graphs etc.	
8 Periods	Ch-14 Electric current and its effects	<ul style="list-style-type: none"> • Reasoning skill • Questioning skill • Observation skill • Critical thinking 	<ul style="list-style-type: none"> • Educomp content • In-text questions • Uploaded videos • Situational props 	<ul style="list-style-type: none"> • To make an open and a closed circuit. • To make a simple electromagnet. • Do and don'ts to avoid electric shock- Role play.(With w. Exp.) 	<ul style="list-style-type: none"> • Oral test • Question framing 	Understanding the concepts related to current, its effects, electromagnets, fuse and MCB's.	
December 8 Periods	Ch-15 Light	<ul style="list-style-type: none"> • Critical thinking skill • Creative thinking • Problem solving • Decision making. • Effective communication. 	<ul style="list-style-type: none"> • Educomp content • In-text questions • Discussion • Uploaded videos 	<ul style="list-style-type: none"> • To demonstrate the images formed by the lenses and spherical mirrors. • To make a Newton's disc. (With W.E) • To show the dispersion of light by prism 	<ul style="list-style-type: none"> • Diagrammatical skill and written test 	Knowing the reflection of light and various concepts related to it.	Periodic test-2 (syllabus ch-12, 13, 14,15 and valencies and radicals)
8 Periods	Ch-16 Water: A	<ul style="list-style-type: none"> • Effective communication 	<ul style="list-style-type: none"> • Educomp content 	<ul style="list-style-type: none"> • To show the videos related to 	<ul style="list-style-type: none"> • Oral test 	Understanding the importance of water	

	precious Resource	<ul style="list-style-type: none"> • Interpersonal Relation ship • Critical and creative thinking • Decision making 	<ul style="list-style-type: none"> • In-text questions • Discussion • Uploaded videos 	rain water harvesting.	<ul style="list-style-type: none"> • Question framing 	and its conservation.	
8 Periods	Ch-17 Forest: Our Life Line	<ul style="list-style-type: none"> • Environmental awareness • Effective communication • Interpersonal Relation ship • Critical and creative thinking • Decision making 	<ul style="list-style-type: none"> • Educomp content • In-text questions • Discussion • Uploaded videos 	<ul style="list-style-type: none"> • To show a PPT related to useful products obtained from forests. • Poster making on effects of pollution on global warming. (With Arts) 	<ul style="list-style-type: none"> • Concept map 	Awareness about the conservation of the forests.	
January 8 Periods	Ch-18 Waste water story	<ul style="list-style-type: none"> • Environment al awareness • Effective communicati on • Interpersonal Relation ship • Critical and creative thinking • Decision making 	<ul style="list-style-type: none"> • Educomp content • In-text questions • Uploaded videos • Discussion 	<ul style="list-style-type: none"> • To make a water filter. 	<ul style="list-style-type: none"> • Oral test 	Awareness about the waste water and how to treat it.	Note book evaluation Lab Manual & Lab. Activity Weekly test-4 (syllabus ch 16, 17,18)
February	Revision and Final exams	Syllabus:- from October to January and ch-1,5,6 and 9.					

