



BISHOP SCOTT BOYS' SCHOOL

STUDENT CURRICULUM MANUAL

Subject : SCIENCE

Class : VIII

Academic Plan : 2025 -26

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
April	LESSON 1: Crop Production and Management	To understand agriculture. To classify different crops according to seasons , i.e., Kharif and Rabi crops. To describe the process of preparation of soil,making control use of fertilizers and pesticides. To understand the importance of irrigation and the different types of method used for irrigation. To explain the importance of crop rotation, increasing crop production.	To test the quality of seeds.	12	
	Lesson 3: Coal and Petroleum	To explain the difference between exhaustible and inexhaustible natural resources To understand the formation of coal and petroleum. To explain the occurrence of natural gas,shortage of fossil fuels. To elucidate the conservation of fossil fuels.	AV CLASS	8	

May & June	Lesson 8: Force and Pressure	<p>To understand the concept of force.</p> <p>To differentiate between contact and non-contact force.</p> <p>To describe the different effect of force and to know the unit of force.</p> <p>To classify different forces.</p> <p>To describe the concept of pressure.</p> <p>To conduct simple investigations to seek answers to daily life queries.</p>	<p>To observe electrostatic force between charge bodies</p> <p>To show liquid exerts same pressure at the same depth.</p> <p>To show the pressure in a liquid increases with depth.</p> <p>To illustrate the existence of atmospheric pressure.</p>	14	PT-1 examination
	Revision for PT-1 examination	-----	-----		
July	Lesson 2 : Microorganisms: Friends and Foe	<p>To classify helpful and harmful microorganism.</p> <p>To describe the usefulness of microorganisms.</p> <p>To explain the harm caused by microorganism</p> <p>To know about disease-causing microorganisms in plants and animals..</p> <p>You know about food preservation and different methods of food preservations.</p> <p>To know about nitrogen cycle.</p>	<p>To observe the fungal growth on bread pieces.</p> <p>To study microorganism present in water and soil.</p>	14	PT-1 Lesson 1: Crop production and management. Lesson 3: Coal and petroleum. Lesson 8: Force and pressure
August	Lesson 4: Combustion and flame.	<p>To understand burning and combustion.</p> <p>To differentiate between combustible and non-combustible substances.</p> <p>To know what are the conditions required for combustion and different types of combustion.</p> <p>To explain structure of the flame and describe different fuels.</p>	<p>To show that oxygen in the air is essential for burning.</p> <p>To show that a substance catches fire at its ignition temperature.</p> <p>Show that the outermost zone of the flame is the hottest.</p> <p>To show that the middle zone of a flame consists of unburned carbon particles</p>	10	

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August	Lesson 10 : Sound	<p>To know what is sound ?</p> <p>To understand the various types and sources of sound.</p> <p>To identify the characteristics of sound and vibration.</p> <p>To know how do we hear and the structure and mechanism of ear.</p> <p>To differentiate between sound and noise.</p> <p>To demonstrate the need to minimise sound and ways to do it.</p>	<p>To study that vibrating object produces sound.</p> <p>To study that sound waves produced vibration on water surface.</p> <p>To study that sound travel in solids.</p> <p>To study that sound travels through liquids.</p> <p>To study that sound travels in air.</p>	12	
	Lesson 5 : Conservation of Plants and Animals.	<p>To understand the importance of biodiversity and the major causes of loss of biodiversity.</p> <p>To explain the flora and fauna and difference between natural park sanctuaries</p> <p>To explain the concept of conservation of biodiversity and learn about the endemic species.</p>	<p>Presentation of Red Data Book samples on endangered species.</p> <p>Observe the harmful effect of deforestation leading to soil erosion and make a collage out of it.</p>	10	
September	Revision			9	<p>Term-1 examination:</p> <p>Lesson 1: Crop Production and management</p> <p>Lesson 2: Microorganism: Friend and Foe</p> <p>Lesson 3: Coal and Petroleum</p> <p>Lesson 4: Combustion and Flame</p> <p>Lesson 5: Conservation of Plants and Animals</p> <p>Lesson 8: Force and Pressure</p> <p>Lesson 10: Sound</p>

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October	Lesson 9 : Friction	To understand the concept of friction. To describe the factors affecting friction. To explain the different types of friction. To know the ways of increasing and decreasing friction.	To show that friction always opposes the motion with the help of book placed on table. Surface Friction Test with the help of different materials Tug of war	14	
November	Lesson 6: Reproduction In Animals	To understand the mode of reproduction i.e, sexual and asexual reproduction To explain fertilization with example. To compare between external and internal fertilization and between viviparous and oviparous animals, to illustrate the life cycle of frog, explain the concept of cloning in brief.	Binary fission -slide observation. AV classes	14	PT-2 examination: Lesson 6: Reproduction in animals. Lesson 7: Reaching the age of Adolescence. Lesson 9: Friction
	Lesson 7: Reaching the age of adolescence	To understand and puberty. To know the changes at puberty and adolescence. To describe the secondary sexual characters. To explain the role of hormones and reproductive phase of human life. To describe the phenomena what determination of sex of a baby.	To calculate the height of a person at the end of growth period from present height.	10	

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December	Lesson 11 : Chemical Effect of Electric Current	<p>To differentiate between conductors and insulators. Show how liquid conducts electricity.</p> <p>To differentiate between the electrolytes and non electrolytes, anode and cathode.</p> <p>To understand electroplating and its application</p> <p>To explain electrolysis and its uses.</p>	<p>To study conductivity of distilled water, acid and base solutions.</p> <p>Demonstrate the process of electroplating.</p>	14	
	Lesson 12 : Some Natural Phenomena.	<p>To explain charging by rubbing</p> <p>To differentiate between positive and negative charges.</p> <p>To demonstrate the transfer of charges.</p> <p>To understand thunder and lightning and to learn the safety measures taken during lightning.</p> <p>To describe earthquake and other information related to it.</p>	<p>To show plastic can carry an electric charge.</p> <p>To show the interaction of charges between each other.</p>	08	

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January	Lesson 13 : Light	<p>To understand the reflection of light.</p> <p>To demonstrate the laws of reflection.</p> <p>To show the formation of image in a plane mirror.</p> <p>To differentiate between regular reflection and irregular reflection</p> <p>To make kaleidoscope to show multiple reflection</p> <p>To describe the dispersion of light.</p>	<p>To observe the lateral inversion in a plane mirror.</p> <p>To study the multiple image formed by two mirror.</p> <p>To show dispersion of light.</p>	12	
February	Revision for Term - 2 examinations.	-----	-----	11	<p>Term-2 examination:</p> <ol style="list-style-type: none"> 1. Lesson 6: Reproduction in animals. 2. Lesson 7: Reaching the age of adolescence 3. Lesson 9: Friction 4. Lesson 11: Chemical Effect of Electric Current 5. Lesson 12: Some natural phenomena 6. Lesson 13: Light