BISHOP SCOTT BOYS' SCHOOL

C - Qurriculum
D - Development &
L - Learning
D - Deljectives





BISHOP SCOTT BOYS' SCHOOL

STUDENT CURRICULUM MANUAL

Subj	Subject : SCIENCE Class : VII			Academic Plan : 2025 -26			
Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment		
	Nutrition in plants	To differentiate between autotrophic and heterotrophic modes of nutrition. To compare different modes of heterotrophic nutrition.	Grow mold on a food item (e.g bread) and observe the fungi under microscope.	8			
April		To explain photosynthesis and materials required to conduct photosynthesis. To describe the way plants, synthesize proteins.					
	Heat	To define the concept of hot and cold and learn about temperature. To differentiate between different types of thermometers.	To observe the difference between different types of thermometers. To study how laboratory thermometers are used.	11	R		
		 To apply the knowledge of measuring temperature in day-to-day life. To differentiate and explain the different modes of heat transfer. To understand the application of modes of heat transfer in our daily lives. 	Classroom activity to demonstrate the 3 modes of heat transfer.				

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
May & June	Physical and Chemical changes	 To categorize changes into physical and chemical change. To learn some basic elements, compounds and their valencies. To identify chemical changes and their properties. To apply the knowledge of chemical and physical changes in daily life. To learn preventing corrosive chemical changes. To explain the process of crystallization. 	To study basic physical changes. To show chemical change form new substances. To show that chemical changes bring change in color. To show chemical change leads to evolution of gas.	13	 PT-1 examination: 1. Nutrition in Plants and Animals 2. Heat 3. Physical and chemical changes.
	Revision for PT-1 examination	BISTOP	SCON	6	R

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
July	Acid Bases and Salts	 To differentiate between acidic, basic and neutral substances. To describe the properties and uses of acids and bases. To compare synthetic and natural indicators. To apply the knowledge of indicators to test nature of different liquids. To define neutralization reactions. To write word equations for different acid-base reactions To apply the learning of scientific concept of neutralization in day-to-day life. 	To study the use of following indicators on different liquids. 1. Litmus solution 2. Phenolphthalein 3. Methyl orange 4. Litmus paper 5. pH paper 6. China rose indicator 7. Turmeric	13	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
	Nutrition in Animals	To classify different mode of nutrition in animals.	To study the effect of saliva on starch.	9	
August		To explain the process of digestion in humans. To illustrate different types of teeth. To explain the process of digestion in ruminants and amoena.	 To draw a well labelled diagram of 1. Human digestive system 2. Process of nutrition in amoeba. 		
	Motion and Time	 To appreciate the evolution of instruments for the measurement of time. To explain the measurement of time using 	Compare the timing of 2 boys running at a particular distance and calculate their speed.	13	
	C	 simple pendulum. To describe the working of clocks and watches. To calculate and compare the relationship between distance time and speed. To differentiate between 	P SCOT		R
		 velocity and speed, distance and displacement. To sketch a distance-time graph and calculate speed of an object using data given in the graph. 			

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
September	Wastewater story	To highlight the harmful effects of contaminants, present in sewage. To describe the sewerage and wastewater treatment plant. To explain alternative methods of sewage disposal. To outline the importance of sanitation at public places.	Discussion on different factors leading to water pollution and how it is impacting different biotic factors on earth.	6	 Term-1 examination: Nutrition in Plants and Animals Heat Physical and chemical changes. Acid Bases and salts. Nutrition in Animals.
	Revision for Term-1 exam	BISHO	P SCOT	4	 Motion and Time Wastewater story

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
October	Electricity and Circuits	To draw symbolic representations of an electrical circuit. To construct electric circuit. To differentiate between series and parallel connection. To observe the application of heating effect of electric current in daily life To construct an electromagnet. To explain the working of electric bell.	To construct an electrical circuit To examine the magnetic field produced by current carrying solenoid using magnetic compass.	10	
	Respiration in Organisms	To differentiate between respiration and breathing To explain the mechanism of breathing in human beings. To compare aerobic and anaerobic modes of respiration. To describe the mechanism of respiration in fishes, frogs, insects and earthworm. To explain respiration in	To show that exhaled air contains carbon dioxide.	9	R

	plants.		
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Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
November	Transport in Plants and Animals	To explain the role of circulatory system in an organism. To classify different components of blood.	Draw the structure of human heart and label all its parts.	10	PT-2 examination:1. Electricity and Circuits2. Respiration in Organisms
	C	To explain the process of double circulation of heart. To differentiate between arteries and veins. To list major blood vessels entering and leaving the heart To explain the process of excretion in human beings and the role of organs involved. To explain transportation and excretion in plants.	P SCOT		3. Transport in Plants and Animals.

Revision for PT-2	 	1	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
December	Light	To demonstrate the laws of reflection.To list the properties of image formed by plane mirror, concave mirror and convex mirror.	To study laws of reflection using plane mirror. To study how different lenses converges or diverges the ray of light.	16	
		To explain refraction of light. To list the property of	To study the difference between concave, convex and plane mirrors.		
	C	images formed by concave and convex lenses.	To study dispersion of white light using prism.		R
		To apply knowledge about different types of mirror and lenses used in day-to- day life.			
		To explain the phenomenon			

of dispersion of white light		

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
Innum	Reproduction in Plants	To differentiate between asexual and sexual	Dissection of <i>Hibiscus rosa</i>	11	
January	C	 reproduction To explain various methods of vegetative propagation. To apply the knowledge of vegetative propagation in their own garden. To list advantages and disadvantages of asexual and sexual reproduction. To list different agents of pollination. To explain fertilization and events after fertilization. 	<i>sinensis</i> to study different parts of flower		R

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	To describe various methods of seed dispersal.			
Forest our Lifeline	To explain the structure of forest. To list the importance of forest and different biotic and abiotic components involved in it. To differentiate between food chain and food web. To explain the consequences of deforestation. To recognize the need to conserve the forest.	Discussion about how prolonged deforestation can be a threat to our planet and life surviving in it.	9	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PL & LERM Assessment
	C	BIP		7	R



