



JINDAL VIDYA MANDIR, JSW HILL SIDE TOWNSHIP

Syllabus Bifurcation: 2025-26

Subject: SCIENCE

Class: VIII

Term: I

Sl No.	Month	WD	ID	No. of Periods	Chapter/Units	Learning Objectives	Activities	Assessment Methods	Portion for WT/PT/Term/AE
1	Apr	13	13	3	Bridge Course				
				10	Ch-1: Crop Production and Management	<p>Compare the advantages of three major tools used for tilling and ploughing to justify the variety of agricultural practices.</p> <p>Distinguish between manure and fertilizers to identify ways in which nutrients in soil are replenished.</p>	Activity: Collect different types of seeds and put them in small bags. Label them.	Oral questions	WT-1(11/04/2025) Portion -Ch-1 (Crop Production and Management)
2	Jun	20	20	8	Ch-2 Microorganisms: Friend and Foe	Recall the four major categories of microorganisms (bacteria, fungi, protozoa, algae). Elucidate the reason for the increasing volume when yeast is added to dough in the baking industry to explain fermentation. Explain microorganisms' role in decomposing to describe their importance.	Activity: Model Making of Microorganisms. Experiment: Keep a slice of bread in a moist place and observe fungal growth over days.	Oral questions	
				6	Ch-8: Force and	Classify common actions	Activity:	Oral questions	

					<p>Pressure</p> <p>involving the motion of an object as push or pull in order to define the term force.</p> <p>Provide examples where force is being applied in order to explain that two objects must interact for a force to come ¹ into play.</p>	<p>Test the effect of different surfaces on friction using rolling objects.</p> <p>Experiment: Demonstrate air pressure using a glass and water experiment.</p>		
			6	Ch-9: Friction.	<p>Identify factors causing friction in order to formulate strategies to reduce it.</p> <p>Provide the advantages and disadvantages of friction in order to justify friction as a necessary evil..</p>	<p>Experiment: Compare sliding friction and rolling friction using objects like a toy car.</p> <p>Activity: Observe frictional force by rubbing hands together and explaining the heat produced.</p>	Performance Task	

3	Jul	25	20	10	Ch-3: Coal and Petroleum	Classify natural resources based on their ability to replenish to distinguish between inexhaustible and exhaustible natural resources. Discuss the process of coal formation to explain why coal is an exhaustible natural resource.		Classroom Discussion	WT-6(16/07/2025) Portion-Ch-2,3 Periodic Test -1 Portion -Ch-1 ,2,8,9
				10	Ch-4: Combustion and Flame	Explain the process of combustion in order to describe the role of fuel and oxygen as necessary conditions for combustion to take place. List the conditions necessary for producing fire to discover how combustible materials can be prevented from catching fire.		Oral questions	
4	Aug	20	20	10	Ch-5: Conservation of plants and animals	List the causes of deforestation to reflect on its rampant existence despite forests being essential to life. Explain recycling to describe ways to reduce deforestation. Explain reforestation to describe ways to reduce it.		Oral questions	
				10	Ch-11: Chemical effects of electric current	List commonly known chemical effects of electricity in order to establish that electricity causes chemical reactions. Describe the process of electroplating in order to explain the application of ¹ the chemical effects of electricity on metals. ^{2 3}	Activity - Electrolysis process Group Presentation on this topic (Conservation of plants and animals)	Concept Mapping	

							Activity- Plant atleast 5 plants in your locality during this academic year and ensure their maintenan ce till they grow.		
5	Sep	20	14		Revision			Quiz, Class test(pen/paper test)	WT-14 (08/09/2025)(Ch-11) Term-1: Ch- 1,2,3,4,5,,8,9,11
TERM 2									
6	Oct	19	19	10	Ch-10 Sound	List and identify the functions of parts of the human body that produce sound in order to explain the process of sound production. Provide examples where sound travels from one point to another in order to establish that sound needs a medium to propagate. Describe the structure and function of an eardrum in order to explain how humans hear sound. Differentiate between frequency and amplitude in order to describe factors responsible for the loudness and pitch of sound.	Reflection of sound similarly to reflection of light	Seminar/oral questions/class test	

						Recall the audible range of sound for humans in order to explain why certain sounds cannot be heard by humans. List the harmful effects of noise pollution in order to mitigate it.			
				09	Ch-13 Light	Establish that light can reflect multiple times with a set of mirrors by constructing a kaleidoscope. Describe the various parts of the human eye and identify their functions in order to explain how humans see objects in the presence of light. Compare and contrast between the blind spot and the field of view in order to explain how humans see objects in the presence of light. Describe the braille system in order to explain how people with visual impairment manage to read and write.	"SEA-3: Model Making of Periscope/ Kaleidoscope/Making toy telephone Activity -5: Prepare a list of famous Indian musicians and the instruments they play it. SEA-4: Model Making to show metamorphosis of Frog /Butterfly "	Seminar/oral questions/class test	
7	Nov	22	22	7	Ch-12 Some Natural	Examine the working of an	Showing	Seminar/oral	

					Phenomenon electroscope to detect if an object is charged or not in order to apply the concept that similar charged objects repel each other. Investigate the process of earthing in order to assess the process of transferring charge from a charged object to the earth and explain the advantages of earthing electric circuits in households. Examine the sequence of lightning occurring in clouds in order to explain the process of electric discharge in nature. Predict how lightning travels from the cloud to the ground in order to describe the measures that must be taken during lightning.	the pictures of some Natural disasters that has occurred recently	questions/class test Seminar/oral questions/class test	
			7	Ch-6 Reproduction in Animals	Differentiate between sex cells corresponding to parents in order to explain male and female gametes. Describe the process of fertilization in order to explain zygote formation. Differentiate between internal and external fertilization in order to describe the two modes of fertilization in animals. Describe the process of embryo and fetus formation to explain how an individual is formed inside the mother's womb. Classify animals based on their ability to give birth or		Concept mapping	

						lay eggs to differentiate between viviparous and oviparous animals. Describe the life cycle of frogs from eggs to adult frogs in order to explain metamorphosis.			
				8	Ch-7 Reaching the age of adolescence	<p>Explain the role of hormones in the development of secondary sexual characteristics to illustrate growth during puberty.</p> <p>Elaborate on the functions of hormones secreted by endocrine glands to explain growth in the male and female body at puberty.</p> <p>Summarize the functions of sex and other hormones to establish their role in secondary sexual characteristics.</p> <p>Describe menstruation, menarche, and menopause to explain the reproductive phases of life in humans.</p> <p>Illustrate the procedure for determining the sex of a baby to establish that the gender of the child is decided by the chromosome from the male sperm.</p> <p>Elucidate the need for a balanced diet to explain the nutritional needs of adolescents.</p>	<p>Activity: Conduct a group discussion on the importance of balanced diet during adolescence.</p> <p>Project: Research hormonal changes and their effects on human growth.</p>	Seminar/oral questions/class test	
8	Dec	26	26	26	Revision for Exam			Class test/seminar	WT-8(6/12/25) Portion -Ch -6

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