



SANT NANDLAL SMRITI VIDYA MANDIR



SYLLABUS - CLASS - X

SESSION – 2023-24

SUBJECT - BIOLOGY

SANT NANDLAL SMRITI VIDYA MANDIR

SYLLABUS 2025 2026

STANDARD X

MONTH	WOR-KING DAYS	PERIODS	TOPIC TO BE TAUGHT	ACTIVITIES	LEARNING OUTCOME	VALUES IMPARTED
April	21	12	Ch-6 LIFE PROCESSES Introduction of the chapter, nutrition in plants Nutrition in human beings Respiration Revision +periodic test-1	1.To prepare a temporary mount of leaf peel to show stomata 2.To write and explain 20 biological terms and their meanings in a terminology file	1.Students will identify sources of nutrients for plants 2.students will contrast about photosynthesis 3.students will understand about the term respiration 4.they will come to know about respiration in plants and respiration in animals	1.Health and hygiene 2.Awareness about digestive system 3.Responsibility toward food products we consume
May	9	6	Ch-6-life processes	3.Toshow experimentally that light is necessary for photosynthesis	1.Explain the respiratory organs, mechanism of	1.Responsibility



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			(continued) Transportation in human beings		respiration and some common respiratory disorder in human beings	2. Awareness about circulatory system
June	11	5	Transportation in plants Excretion Excretion continued	4. To make a flow chart showing different life processes in a diagrammatic form	1. Differentiate between the process of transportation and excretion taking place in plants and animals.	3. Values of hard work and working continuously
July	26	13	Ch-7-control and Coordination Introduction of the chapter animal nervous system Reflex action ,human brain Nervous tissues action Revision + periodic test-2	5. To make a flow chart explaining the different types of plant movements	1. To explain nervous system in human beings 2. Describe reflex action 3. Locate the major endocrine glands in human body 4. Discuss action caused by the nervous system	1. Continues work 2. team work 3. fast and perfect work 4. Responsibility



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August	24	13	Coordination in plants Movement due to growth Hormones in animals Hormones in animals	6. To show experimentally that carbon dioxide is given out during respiration	1. Recall coordination in plants 2. Discuss various tropic movements in plants	1. Responsibility 2. Ready to act attitude 3. Integrity 4. Commitment
Sept.	21	4	Revision + half yearly exam Ch-8-how do organisms Reproduce Introduction of the chapter Asexual reproduction in organisms	7. To study binary fission in amoeba and budding in yeast with the help of prepared slides	1. To develop scientific awareness among the students about reproduction in living organism	1. values of individuality 2. uniqueness 3. social responsibility 4. contribution to future generation



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				8.To prepare a collage showing different methods of asexual reproduction		
Oct.	18	9	Sexual reproduction in plants and animals (Human beings) Reproductive health Needs and methods of family planning HIV AIDS		1.To aware the students about different parts of organism related to reproduction 3.To develop the interdisciplinary approach to study reproduction in different organism 4.To make students aware about their surroundings and environment	5.Awareness about reproductive health 6.Equality among male and female



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Nov.	23	7	Ch-9-HEREDITY AND EVOLUTION Introduction of the chapter, Mendel's laws of inheritance Sex determination. Revision+ periodic test-3	10. To write and explain the three laws of Mendel through a punnet square in a file	1. Discuss DNA as the genetic material 2. Explain Mendel's laws of inheritance 2. Express the mechanism of sex determination	1. Integrity 2. uniqueness 3. Importance of our genes 4. importance of artificial selection over natural selection -
Dec.	19	8	Ch-15- our environment Introduction of the chapter , ecosystem Food chain, food web Waste management +revision	11. To identify the different parts of an embryo of a dicot seed (pea, gram or red kidney bean)	1. Explain the various types of waste being added to the environment 2. Classify the various components and their interrelationship in an ecosystem 3. Predict the consequences due to human activities	1. Social responsibilities towards environment 2. Awareness toward clean and green environment 3. Collaborative work 4. Responsibility toward controlling pollution



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				which affect the environment 4. Analyse reasons for ozone depletion 5. Interpret management of garbage disposal in own words		
Jan.	22	4	Ch-16-management of natural resources Introduction of the chapter, ganga action plan sustainable management Water for all Coal and petroleum Revision +class test	12. To prepare a model / chart showing the pyramids of biomass and energy and explain the 10% law	1. Express the necessity of resources 2. Explain distribution of forests wild life and their sustainable management 3. Describe the method of rainwater harvesting 4. Identify the importance of fossil fuels like coal and petroleum	1. Responsibility towards natural products that are consumed directly 2. Enjoyment and satisfaction received directly by biological resources 3. Environmental sensitivity



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Feb.	22	12	Revision Revision Revision+ annual exam			
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