



# SANT NANDLAL SMRITI VIDYA MANDIR

SYLLABUS - CLASS – IX

SESSION – 2026 – 27

SUBJECT – BIOLOGY



SANT NANDLAL SMRITI VIDYA MANDIR

SYLLABUS 2026 2027

STANDARD IX

MONTH	WORKING DAYS	NO. OF CLASSES	TOPIC TO BE TAUGHT	ACTIVITIES	LEARNING OUTCOME	VALUES IMPARTED
April	23	10	<b>Ch The fundamental unit of life</b> Discovery of cell * Plant and animal cells * Prokaryotic and eukaryotic cells * Cell as a structural and functional unit of life; structure and function of key organelles (nucleus, mitochondria, chloroplast, endoplasmic reticulum, vacuoles, plasma membrane, cell wall) * Permeability of cell membranes * Revision + periodic test 1	To draw the labelled diagram of plant and animal cell.  To understand osmosis by the raisin experiment  Temporary mount of onion peel and human cheek cells	1. Compare a prokaryotic cell with an eukaryotic cell. 2. Discuss about the characteristic features of eukaryotic organisms 3. Emphasize the importance of cell membrane and cell wall 4. Explain the structure of cell organelles 5. Role of biomolecules	1. Individuality 2. Cooperation 3. Coordination 4. Unity and Staying together
May	08	03	<b>Ch The fundamental unit of life</b> Cellular division and cancer * Recent advancement in cell biology	Project on recent advancements in cell biology	1. Contribution of Prof. Arun Kumar Sharma 2. Leigh's Syndrome and mitochondrial dysfunction 3. Cancer and its causes	Appreciation of life, importance of organization, awareness and responsibility



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June	11	05	<p><b>Ch Tissues</b> – Plant tissues (introduction)            Classification of plant tissues            Meristematic tissue            Simple permanent tissues            Complex permanent tissues</p>	To prepare a flowchart of classification of plant tissues	<p>To identify and understand the features of meristematic tissues, parenchyma, sclerenchyma and collenchyma            To understand structural, functional and locational differences between the different types of plant tissues</p>	<p>1. Coordination for a common cause            2. Division of labour            3. Integrity</p>
July	26	12	<p>Animal tissues            Overview (epithelial, connective, muscular and nervous tissues — types, structure and function of each)            Elementary idea of musculoskeletal system            Care of musculoskeletal system: injuries, postural care, nutrition and exercise</p>	To prepare a flowchart of classification of animal tissues	<p>To identify and understand the features of animal tissues            To understand Care of musculoskeletal system: injuries, postural care, nutrition for healthy tissues</p>	<p>1. Coordination for a common cause            2. Division of labour            3. Integrity</p>
August	23	12	<p><b>Reproduction</b>            Introduction to different forms of reproduction — sexual and asexual            Types of asexual reproduction with examples            Sexual reproduction in flowering plants (flower and its parts, pollination,</p>	Study of flower to understand its parts	<p>Compare asexual and sexual reproduction            Describe male and female reproductive organs in plants and animals            Differentiate between ovule and seed; ovary and fruit            Explain pollination and fertilisation</p>	



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			fertilisation, seed dispersal)			
Sept.	23	06	Revision Half yearly examination	_____	_____	_____
Oct.	16	06	Sexual reproduction in humans: male and female reproductive systems (structure and function, formation of gametes, sperm and egg, fertilisation, pregnancy and development of embryo, menstrual cycle)	Myths and facts about menstrual cycle	Explain how variations are introduced by sexual reproduction	Scientific attitude Gender equality
Nov.	19	12	Reproductive health and Hygiene, Introduction to birth control methods and importance <b>Diversity</b> Importance of classification	_____	Recognise the significance of contraceptive devices for population control and health including reproductive health	Health and hygiene awareness
Dec.	19	06	Five kingdoms and their key features with examples	Draw a flowchart highlighting the features of the five kingdoms	Distinguish organisms based on certain characteristics, such as number of cells present, cellular organisation and mode of nutrition Classify various organisms in groups, such as five kingdoms, on the basis of their cellular organisation and ecological role	Interdependence Interlinkage Uniqueness



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Jan.	20	12	Major division of animals and plants Binomial nomenclature Acellular entities: viruses	Project on binomial nomenclature of 10 plants and 10 animals	Describe the significance and rules of binomial nomenclature Apply binomial nomenclature on some common organisms in their surroundings	Interdependence Interlinkage Uniqueness
Feb.	23	08	Revision Annual examination	_____	_____	_____