

THE WISDOM GLOBAL SCHOOL

SYLLABUS BIFURCATION

GRADE-X

SUBJECT-BIOLOGY

NAME OF BOOK- SCIENCE NCERT

YEAR-2024-25

NAME OF TEACHER- Mr. NARENDRA KUMAR

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO. OF DAYS REQUIRED	ACTIVITY /PRO PS	SMART BOARD (PPT/VIDE O)	MATERIAL REQUIRED
1	NCERT & S.CHAND	APRIL	6	LIFE PROCESS	WHAT ARE LIFE PROCESS	1	NO	https://video.wixstatic.com/video/f29914_b7e69edfc8fc49a6ad696d47aeccd14d/720p/mp4/file.mp4	NO
2		APRIL			NUTRITION: AUTOTROPHIC NUTRITION	1	YES	https://video.wixstatic.com/video/f29914_b7e69edfc8fc49a6ad696d47aeccd14d/720p/mp4/file.mp4	NO
3		APRIL			NUTRITION IN PLANTS	1	TEST FOR STARCH ON LEAF	YES	BEAKER , LEAF , IODINE SOLUTION
4		APRIL			HETEROTROPHIC NUTRITION: NUTRITION IN AMOEBA	1	NO	YES	NO
5		APRIL			HUMAN DIGESTIVE SYSTEM	1	NO	YES	YES
6		APRIL			NUTRITION IN HUMAN	2	TEST OF BREAKDOWN OF STARCH IN MOUTH ONLY	YES	BREAD OR STARCH SOLUTION , SALIVA , IODINE SOLUTION
7		APRIL			RESPIRATION AND ITS TYPES, ATP	1	TO SHOW PRESENCE OF CARBON DIOXIDE IN PLANT	https://video.wixstatic.com/video/f29914_3e9d49864e624ba7b0021378bb8fec54/720p/mp4/file.mp4	TWO POTTED PLANTS , POTASSIUM HYDROXIDE , BELL JAR
8		APRIL			HUMAN RESPIRATORY SYSTEM	1	NO	YES	NO

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO. OF DAYS REQUIRED	ACTIVITY /PRO PS	SMART BOARD (PPT/VIDE O)	MATERIAL REQUIRED
9		APRIL			RESPIRATION IN HUMAN	1	TEST FOR PRESENCE OF CARBON DIOXIDE IN HUMANS	YES	FRESHLY PREPARED LIME WATER, SYRINGE , STRAW
10		APRIL			TRANSPORTATION: BLOOD	1	VISIT TO HUMAN AND ANIMAL HEALTH CARE CENTRE	https://video.wixstatic.com/video/f29914_b99166dc466d4aae887d75f6f116bdbc/720p/mp4/file.mp4	NO
11		MAY			HUMAN HEART	1	STATIC MODEL OF HUMAN HEART	NO	HUMAN HEART
12		MAY			CIRCULATORY PATHWAYS IN HUMAN	1	NO	YES	NO
13		MAY			BLOOD VESSELS AND BLOOD PRESSURE	1	NO	https://video.wixstatic.com/video/f29914_b99166dc466d4aae887d75f6f116bdbc/720p/mp4/file.mp4	NO
14		MAY			BLOOD CLOTTING, LYMPH	1	TO FIND THE AMOUNT OF HAEMOGLOBIN IN HUMANS	YES	SAHIL'S HAEMOMETRE , ANTISEPTIC SOLUTION , NEDDLE
15		MAY			TRANSPORTATION IN PLANTS:TRANSPORT OF WATER	1	MAKE TEMPORARY MOUNT OF STOMATA USING	YES	ONION , DISECTION BOX, SEFARANIN SOLUTION
16		MAY			TRANSLOCATION	1	NO	YES	NO

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO. OF DAYS REQUIRED	ACTIVITY /PRO PS	SMART BOARD (PPT/VIDE O)	MATERIAL REQUIRED
17		MAY			EXCRETION: HUMAN EXCRETORY SYSTEM		1	STATIC MODEL OF HUMAN EXCRETORY SYSTEM	YES HUMAN EXCRETORY MODEL
18		MAY			URINE FORMATION		1	NO	YES NO
19		MAY			HAEMODIALYSIS , EXCRETION IN PLANTS		1	NO	YES NO
20	NCERT AND S.CHAND	JULY	7	CONTROL AND COORDINATION	INTRODUCTION OF CONTROL AND COORDINATION,ANIMAL NERVOUS SYSTEM		1	HOW TASTE OF FOOD IS DETECED https://video.wixstatic.com/video/f29914_2eb39fcee7a545b48995d854d094aced/720p/mp4/file.mp4	SUGAR
21		JULY			STRUCTURE OF NEURON AND SYNAPSE		1	NO	YES NO
22		JULY			REFLEX AND REFLEX ARCH		1	NO	YES NO
23		JULY			HUMAN BRAIN STRUCTURE AND FUNCTION(BRIEF)		1	BRAIN MODEL YES	BRAIN MODEL
24		JULY			WORKING OF HUMAN NERVOUS SYSTEM		1	NO	YES NO
25		AUGUST			COORDINATION IN PLANTS, IMMEDIATE RESPONSE TO STIMULUS		1	NO	YES NO
26		AUGUST			GROWTH RELATED MOVEMENT IN PLANTS- GEOTROPHISM,PHOTOTHROPHISM,CHEMOTROPHISM		1	PHOTISM MOVEMENT OF PLANTS +VE AND -VE https://video.wixstatic.com/video/f29914_8720648ad3b94d6289bfab7211afb734/720p/mp4/file.mp4	BEAKER , JUTE/HUSK NET, ANY PULSES SEED , WATER , CARD BOARD
27		AUGUST			PHYTOHORMONES		1	NO	YES NO
28		AUGUST			HUMAN ENDOCRINE SYSTEM		1	NO	NO NO
29		AUGUST			MAIN HORMONES AND THEIR FUNCTIONS		1	NO	YES NO
								https://video.wixstatic.com/video/f29914_8720648ad3b94d6289bfab7211afb734/720p/mp4/file.mp4	

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO. OF DAYS REQUIRED	ACTIVITY /PRO PS	SMART BOARD (PPT/VIDE O)	MATERIAL REQUIRED
30	SCIENCE- NCERT	SEPTEMBER	8	HOW DO ORGANISM REPRODUCE?	REPRODUCTION ITS SIGNIFICANCE, IMPORTANCE OF VARIATION	1	NO	.com/video/f29914_c16e0815172f4933802d7cc1d5275182/720p/mp4/file.mp4	NO
31		SEPTEMBER			MODE OF REPRODUCTION: SEXUAL AND ASEXUAL	1	ASEXUAL REPRODUCTION USING YEAST	YES	PETRI DISH AND YEAST
MID TERM ASSESSMENT									
32		SEPTEMBER			& FREGNMENTATION	1	NO	YES	NO
33		SEPTEMBER			BUDDING & REGENERATION	1	NO	YES	NO
34		SEPTEMBER			SPORE FORMATION & VEGETATIVE PROPAGATION	1	SPORE FORMATION USING BREAD MOULD	YES	BREAD , WATER , WATCH GLASS
35		SEPTEMBER			TISSUE CULTURE & WHY SEXUAL REPRODUCTION?	1	LAYERING AND GRAFTING IN FIELD	YES	PLANT WITH BUDS , GRAFTING TOOLS
36		OCTOBER			SEXUAL REPRODUCTION IN FLOWERING PLANT: STRUCTURE OF FLOWER	1	GROWING OF PLUMULE AND	https://video.wixstatic.com/video/f29914_5d70dc9f0b3643dba80fa6a778d3587c/720p/mp4/file.mp4	ANY PULSES SEED , COTTON, WATER
37		OCTOBER			PROCESS OF SEXUAL REPRODUCTION, POLLINATION	1	DISECTION OF FLOWER	NO	HIBISCUS FLOWER AND DISECTION BOX AND TRAY
38		OCTOBER			SEXUAL REPRODUCTION IN HUMAN: PUBERTY AND ADOLESCENCE	1	NO	https://video.wixstatic.com/video/f29914_13c6e756e8274af785b9d552aef73081/720p/mp4/file.mp4	NO
					MALE REPRODUCTIVE SYSTEM		STATIC MODEL.		

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO. OF DAYS REQUIRED	ACTIVITY /PRO PS	SMART BOARD (PPT/VIDE O)	MATERIAL REQUIRED
39		OCTOBER			HUMAN	1	MODEL EXPLANATION OF MALE REPRODUCTIVE	NO	MALE REPRODUCTIVE SYSTEM MODEL
40		NOVEMBER			HUMAN FEMALE REPRODUCTIVE SYSTEM	1	STATIC MODEL EXPLANATION OF MALE REPRODUCTIVE	YES	FEMALE REPRODUCTIVE SYSTEM MODEL
41		NOVEMBER			PROCESS OF SEXUAL REPRODUCTION HUMAN	1	STATIC MODEL EXPLANATION OF MENSTRUATION	YES	MENSTRUATION MODEL
42		NOVEMBER			REPRODUCTIVE HEALTH	1	NO	https://video.wixstatic.com/video/f29914_d6f118c051a54180bd8	NO
43	SCIENCE- NCERT	NOVEMBER	9	HERIDITY AND EVOLUTION	HERIDITY AND ACCUMULATION OF VARIATION	1	NO	https://video.wixstatic.com/video/f29914_74061ad6db2845caa10822be665b8812/720p/mp4/file.mp4	NO
44		DECEMBER			MENDELS WORK AND CONTRIBUTION	1	OBSERVE THE CONTRAST	YES	PEA PLANT
45		DECEMBER			IMPORTANT TERMINOLOGY OF GENETICS	1	NO	YES	NO
46		DECEMBER			MONOHYBRID CROSS: LAW OF DOMINANCE, LAW OF SEGREGATION	1	DEPICT MONO HYBRID CROSS	YES	PEDIGREE CHART
47		DECEMBER			DIHYBRID CROSS: LAW OF INDEPENDENT ASSORTMENT	1	NO	YES	NO
48		DECEMBER			SEX-DETERMINATION IN HUMAN AND INTRODUCTION OF EVOLUTION	1	MITOSIS AND MEIOSIS THROUGH PERMANENT SLIDES	YES	MICROSCOPE AND PERMANENT SLIDEA
					NATURAL SELECTION GENETIC		CASE STUDY OF	https://video.wixstatic.com/video/f29914_47	

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO. OF DAYS REQUIRED	ACTIVITY /PRO PS	SMART BOARD (PPT/VIDE O)	MATERIAL REQUIRED
49		DECEMBER			NATURAL SELECTION,GENETIC DRIFT, ACQUIRED AND INHERITED TRAIT		1 O	https://www.youtube.com/watch?v=80598b50a44b058e687822ea07894f720p/mp4/file.mp4	DOCUMENTRY VIDEO
55	NCERT AND S.CHAND	JANUARY	15	OUR ENVIRONMENT	ECOLOGY: ECOSYSTEM AND COMPONENT		1 NO	https://www.wixstatic.com/video/f29914_e182eec3bb4d4917bddc61d5bb574370/720p/mp4/file.mp4	YES
56		JANUARY			FOOD CHAIN, FOOD WEB, ENERGY FLOW IN AN ECOSYSTEM				YES
57		JANUARY			OZONE LAYER DEPLETION			CASE STUDY OF 1 st EARTH SUBMIT	DOCUMENTRY VIDEO
58		JANUARY			WASTE AND ITS MANAGEMENT			VISIT TO STP PLANT	YES
PRE-BOARD ASSESSMENT									