

THE WISDOM GLOBAL SCHOOL**SYLLABUS BIFURCATION****GRADE-11****SUBJECT-BIOLOGY****NAME OF BOOK- BIOLOGY 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/P ROPS	SMART BOARD(PPT/VIDEO)	MATERILA REQUIRED
1	BIOLOGY-NCERT	APRIL	1	The Living World	BIODIVERSITY , NEED OF CLASSIFICTION	1	NO	https://video.wixstatic.com/video/f29914_a05f749af1764c2f8752cb57962a6f5f/720p/mp4/file.mp4	NO
2		APRIL			THREE DOMAIN OF LIFE: TAXONOMY AND SYSTEMATICS	2	Parts of a compound microscope.	NO	COMPOUND MICROSCOPE
3		APRIL			CONCEPT OF SPECIES AND TAXONOMICAL HIERARCHY, BINOMIAL NOMENCLATURE	3	NO	https://video.wixstatic.com/video/f29914_afae0edf1cce4872bd710b83d60bda6f/720p/mp4/file.mp4	NO

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4		APRIL	2	BIOLOGICAL CLASSIFICATION	FIVE KINGDOM CLASSIFICATION	1	Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen	https://video.wixtatic.com/video/f29914_c7c8deb94411498c912e609a4e611931/720p/mp4/file.mp4	MODELS OF SPECIMENS
5		APRIL			SALIENT FEATURES AND CLASSIFICATION OF MONERA	1	YES	https://video.wixtatic.com/video/f29914_ea671572ccd34b0fb9e2d146082062d1/720p/mp4/file.mp4	NO
6		APRIL			PROTISTA AND FUNGI INTO MAJOR GROUPS, LICHENS, VIRUSES AND VIROID	4	NO	https://video.wixtatic.com/video/f29914_5b9bbb63fd8c4ec28f4114e506d51bb5/720p/mp4/file.mp4	NO
7		APRIL	3	PLANT KINGDOM	CLASSIFICATION OF PLANTS INTO MAJOR GROUPS	1	YES	https://video.wixtatic.com/video/f29914_6176541307d140b8b85e4851193a35ff/720p/mp4/file.mp4	NO

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8		MAY			SALIENT AND DISTINGUISHING FEATURES AND A FEW EXAMPLES OF ALGAE, BRYOPHYTA, PTERIDOPHYTA, GYMNOSPERM	5	YES	https://video.wixtatic.com/video/f29914_6d67136cf75483cb749bf24d7466e3d/720p/mp4/file.mp4	NO
9		MAY	4	ANIMAL KINGDOM	SALIENT FEATURE AND CLASSIFICATION OF ANIMALS.	2	YES	https://video.wixtatic.com/video/f29914_fe2514db9e984d9780f15fac92120339/720p/mp4/file.mp4	NO
10		MAY			NON-CHORDATES UPTO PHYLA LEVEL(SALIENT FEATURES AND A FEW EXAMPLES OF EACH CATEGORY)	4	. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.	https://video.wixtatic.com/video/f29914_98264681c17e440eabb6ab2cb951530f/720p/mp4/file.mp4	MODELS OF SPECIMENS
11	BIOLOGY-NCERT	MAY			CHORDATES UPTO CLASS LEVEL (SALIENT FEATURES AND A FEW EXAMPLES OF EACH CATEGORY)	3	NO	https://video.wixtatic.com/video/f29914_804ea1d4880b4997ae950f4616389296/720p/mp4/file.mp4	NO

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12		MAY	5	MORPHOLOGY OF FLOWERING PLANTS	MORPHOLOGY OF DIFFERETNT PARTS OF FLOWERING PLANTS : ROOTS STEM, LEAF, INFLORESCENCE, FLOWER, FRUIT AND SEED. DESCRIPTION OF FAMILY SOLANACEAE	8	Study of osmosis by potato osmometer.	https://video.wixtatic.com/video/f29914_7ad3be8b7e6b4eadb8fd1dc0c4b3030/720p/mp4/file.mp4	NO
13		JULY	6	ANATOMY OF FLOWERING PLANTS	ANATOMY AND FUNCTIONS OF TISSUE SYSTEMS IN DICOT AND MONOCOTS.	4	Preparation and study of T.S. of dicot and monocot roots and stems (primary).	https://video.wixtatic.com/video/f29914_e22ec8cdb85a41308d376cfa0c74abbd/720p/mp4/file.mp4	DISECTION BOX , PLANT MATERIAL , STAINS , MICROSCOPE
14		JULY	7	STRUCTURAL ORGANISATION IN ANIMALS	MORPHOLOGY ANATOMY AND FUNCTION OF - DIGESTIVE SYSTEM OF FROG	1	NO	https://video.wixtatic.com/video/f29914_b14d22a2a4684d32b8792d2cf8ef3d08/720p/mp4/file.mp4	NO
15		JULY			MORPHOLOGY ANATOMY AND FUNCTION OF - CIRCULATORY SYSTEM OF FROG	1	Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves ofonion bulb).	YES	ONION BULB , DISECTION BOX, NaCl Solution

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16		AUGUST			MORPHOLOGY ANATOMY AND FUNCTION OF- RESPIRATORY SYSTEM OF FROG	1	Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of	https://video.wixtatic.com/video/f29914_15134bc7709547f995004ffac08cf0ab/720p/mp4/file.mp4	POTATO PLANT , BRINJAL PLANT AND TOMATO PLANT
18	BIOLOGY-NCERT	AUGUST			MORPHOLOGY ANATOMY AND FUNCTION OF - NERVOUS SYSTEM OF FROG	1	NO	YES	YES
19		AUGUST			MORPHOLOGY ANATOMY AND FUNCTION OF REPRODUCTIVE SYSTEM OF FROG	1	Study of distribution of stomata on the upper and lower surfaces of leaves.	YES	SUCCULENT PALNT , SLIDE , MICROSCOPE
20		AUGUST	8	CELL- THE UNIT OF LIFE	CELL THEORY AND CELL AS THE BASIC UNIT OF LIFE, STRUCTURE OF PROKARYOTIC AND EUKARYOTIC CELL	2	NO	https://video.wixtatic.com/video/f29914_f948c9d518524147aa59f0caff7f68fc/720p/mp4/file.mp4	NO

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21	BIOLOGY-NCERT	AUGUST			PLANT CELL AND ANIMAL CELL	2	NO	https://video.wixtatic.com/video/f29914_4f625d4d31c441cba36cd0ea2da06289/720p/mp4/file.mp4	NO
22		AUGUST			CELL ENVELOP: CELL MEMBRANE AND CELL WALL	2	NO	https://video.wixtatic.com/video/f29914_c6ea439ec9f24728862aab23c9af9955/720p/mp4/file.mp4	NO
23		AUGUST			CELL ORGANELLES- STRUCTURE AND FUNCTION, ER, GOLGI BODY, LYSOSOMES, VACUOLE, MITOCHONDRIA, RIBOSOME, PLASTID, MICROBODIES, CYTOSKELETON, CILIA, FLAGELLA, CENTRIOLES, NUCLEUS	8	NO	https://video.wixtatic.com/video/f29914_d28b2abdcfce40438adfc70f5d7f661f/720p/mp4/file.mp4	NO
MID TERM ASSESSMENT									
24		SEPTEMBER	9	BIOMOLECULE	CHEMICAL CONSTITUENTS OF LIVING CELLS: BIOMOLECULES	1	NO	https://video.wixtatic.com/video/f29914_1e8fd5dd2d374ac6a00045960c288935/720p/mp4/file.mp4	NO
25		SEPTEMBER			STRUCTURE AND FUNCTION OF PROTEIN,CARBOHYDRATES, LIPIDS, NUCLEIC ACIDS	4	Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials	YES	GIVEN PLANT OR ANIMAL MATERIAL , SUDAN III REAGENT , DROPPER , OIL
26		OCTOBER			ENZYME- TYPES, PROPERTIES, ENZYME ACTION	2	NO	NO	NO

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27		OCTOBER	10	CELL CYCLE AND CELL DIVISION	CELL CYCLE AND MITOSIS AND THEIR SIGNIFICANCE	4	. Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.	https://video.wixtatic.com/video/f29914_ed8a7073514a4a218e2f68797025e8ed/720p/mp4/file.mp4	OINIO, SUCROSE SOLUTION, FLASK, MICROSCOPE
28	BIOLOGY-NCERT	OCTOBER	13	PHOTOSYNTHESIS	PHOTOSYNTHESIS AS A MEANS OF AUTOTROPHIC NUTRITION: SITE OF PHOTOSYNTHESIS	2	NO	https://video.wixtatic.com/video/f29914_624eed41c1fb4286961cf76edadd29d/720p/mp4/file.mp4	NO
29		NOVEMBER			PIGMENTS INVOLVED IN PHOTOSYNTHESIS	1	Separation of plant pigments through paper chromatography.	YES	SYRINGE, CHROMATOGRAPHY SOLUTION , CORK, TEST TUBE
30		NOVEMBER			PHOTOCHEMICAL AND BIOSYNTHETIC PHASE OF PHOTOSYNTHESIS: CYCLIC AND NON-CYCLIC PHOTOPHOSPHORYLATION, CHEMOOSMOTIC HYPOTHESIS	3	NO	YES	NO
31		NOVEMBER			PHOTORESPIRATION, C3 AND C4 PATHWAY, FACTOR EFFECTING PHOTOSYNTHESIS	3	NO	YES	NO
32		DECEMBER	14	RESPIRATION IN PLANTS	EXCHANGES OF GASES1	1	NO	https://video.wixtatic.com/video/f29914_965f917a4ce14bb19f8c527858f30be6/720p/mp4/file.mp4	NO
33		DECEMBER			CELLULAR RESPIRATION: GLYCOLYSIS	1	NO	YES	NO

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34		DECEMBER			FERMENTATION	1	Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.	YES	BOILING TUBE, BUDS/GERMINATING SEED, SINGLE BORE CORK, COTTON, PIPETTE, BURETTE CLAMPS,KOH SOLUTION, BLACK PAPER, FILTER PAPER
35		DECEMBER			TCA CYCLE, ETS	2	NO	YES	NO
36		DECEMBER			ENERGY RELATION : NUMBEROF ATP MOLECULES GENERATED, AMPHIBOLIC PATHWAYS RESPIRATORY QUOTIENT	2	NO	YES	NO
37	BIOLOGY-NCERT	DECEMBER	15	PLANT GROWTH AND DEVELOPMENT	SEED GERMINATION: PHASES OF PLANT GROWTH AND PLANT GROWTH RATE, CONDITION OF GROWTH, DIFFERENTIATION , DEDIFFERENTIATION AND REDIFFERENTIATION	3	NO	https://video.wixtatic.com/video/f29914_a592e048a4e1450a8978620392b63108/720p/mp4/file.mp4	NO
38		DECEMBER			SEQUENCE OF DEVELOPMENTAL PROCESSES IN A PLANT CELL	1	NO	YES	NO
39		DECEMBER			PLANT GROWTH REGULATORS- AUXIN, GIBBERELIN, CYTOKININ , ETHYLENE, ABA	3	NO	YES	NO
40		JANUARY	17	BREATHING AND EXCHANGES OF GASES	RESPIRATORY ORGANS IN ANIMALS	1	NO	https://video.wixtatic.com/video/f29914_e78a03c3cd384bceac5bcc22d970e2da/720p/mp4/file.mp4	YES
41		JANUARY			RESPIRATORY SYSTEM IN HUMANS	1	Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.	YES	SLIDE, SUCCELENT PLANT MICROSCOPE
42	BIOLOGY-NCERT	JANUARY			MECHANISM OF BREATHING AND ITS REGULATION IN HUMAN	1	NO	YES	NO
43		JANUARY			EXCHANGES AND TRANSPORT OF GASES	2	NO	YES	NO

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44		JANUARY			REGULATION OF RESPIRATION DISORDER RELATED TO RESPIRATION	1	NO	YES	NO
45		FEBRUARY	18	BODY FLUID AND CIRCULATION	COMPOSITION OF BLOOD, BLOOD GROUPS, COAGULATION OF BLOOD	2	NO	https://video.wixtatic.com/video/f29914_908e549e4cfe4ae3bbd2d6807a83a3a4/720p/mp4/file.mp4	NO
46	BIOLOGY-NCERT	FEBRUARY			HUMAN CIRCULATORY SYSTEM	1	Test for Haemoglobin	YES	SAHIL'S HAEMOMETRE
47		FEBRUARY			CARDIAC CYCLE, CARDIAC OUTPUT, ECG DOUBLE CIRCULATION	1	NO	YES	NO
48		FEBRUARY			REGULATION AND DISORDER OF CARDIAC SYSTEM	1	NO	YES	NO
49		FEBRUARY	19	EXCRETORY PRODUCTS AND THEIR ELIMINATION	MODES OF EXCRETION , HUMAN EXCRETORY SYSTEM	1	Test for presence of urea in urine	https://video.wixtatic.com/video/f29914_d834c1d2ae81485eb48aa7fb3d634b5a/720p/mp4/file.mp4	TEST TUBE, ACETIC ACID,UREASE POWDER
50		FEBRUARY			URINE FORMATION, OSMOREGULATION	1	Test for presence of sugar in urine	YES	TEST TUBE , FEHLING SOLA, CuSO4 SOLUTION , SODIUM POTASSIUM TARTRATE
51	BIOLOGY-NCERT				REGULATION AND DISORDERS OF KIDNEY FUNCTION	2	Test for presence of albumin and bile salts in urine	YES	TEST TUBE , Con H2SO4, SUCROSE , MEASURING CYLINDER
52		FEBRUARY	20	LOCOMOTION AND MOVEMENT	TYPES OF MOVEMENTS- CILIARY, FLAGELLAR, MUSCULAR	1	NO	https://video.wixtatic.com/video/f29914_8a6603acaf478eb7fc700686841fbd/720p/mp4/file.mp4	NO

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53		FEBRUARY			SKELETAL MUSCLE- CONTRACTILE PROTEIN AND MUSCLE CONTRACTION	2	Human skeleton and different types of joints with the help of virtual images/models only.	YES	SKELETAL MODEL
54	BIOLOGY-NCERT	FEBRUARY			SKELETAL SYSTEM AND ITS FUNCTIONS	2	NO	YES	NO
55		FEBRUARY			DISORDER OF MUSCULAR AND SKELETAL SYSTEM	1	NO	YES	NO
56		FEBRUARY	21	NEURAL CONTROL AND COORDINATION	NEURON AND NERVES	1	NO	https://video.wixtatic.com/video/f29914_c4f85fe0f5244a7a9f51bb40599707e3/720p/mp4/file.mp4	YES
57	BIOLOGY-NCERT	FEBRUARY			HUMAN NERVOUS SYSTEM	2	NO	YES	NO
58		FEBRUARY			GENERATION AND CONDUCTION OF NERVE IMPULSE	2	Blood group determination	YES	ABD SOLUTION, SLIDE, NEEDLE, COTTON, ANTISEPTIC SOLUTION
59		FEBRUARY	22	CHEMICAL COORDINATION AND INTEGRATION	HUMAN ENDOCRINE SYSTEM- HYPOTHALMUS, PITUITARY, PINEAL THYROID, PARATHYROID, ADRENAL, PANCREASE, GONAD	2	NO	https://video.wixtatic.com/video/f29914_e113cbac788c428c899a43b1695decea/720p/mp4/file.mp4	YES
60	BIOLOGY-NCERT	FEBRUARY			MECHANISM OF ACTION HORMONE	2	NO	YES	NO
FINAL ASSESSMENT									