

THE WISDOM GLOBAL SCHOOL

SYLLABUS BIFURCATION

GRADE 7

SUBJECT:- SCIENCE

NAME OF BOOKS: OXFORD INSPIRE

YEAR 2024-25

NAME OF THE TEACHER:- Ms. MANIKA SHARMA

S.NO	BOOK NAME	MONTH	CHAPTER NUMBER	CHAPTER NAME	SUB-TOPICS	NO. OF DAYS REQUIRED	ACTIVITY	MATERIAL REQUIRED (IF ANY)	ANIMATED VIDEO LINK
1	OXFORD INSPIRE	APRIL	1	NUTRITION IN PLANTS	AUTOTROPIC NUTRITION	1	TO SHOW THAT CHLOROPHYLL IS NECESSARY FOR PHOTOSYNTHESIS	A VARIEGATED LEAF. WIRE GAUGE, TRIPOD STAND, A BEAKER, BUNSEN BURNER, WATER, TEST TUBE DROPPER, TONGS, PETRI DISH, ALCOHOL, IODINE SOLUTION	https://video.wixstatic.com/video/f29914_1ff5412d02324df294bf39b2d22c9191/720p/mp4/file.mp4
					FACTORS ESSENTIAL FOR PHOTOSYNTHESIS	1	TO DEMONSTRATE THAT LIGHT IS ESSENTIAL FOR PHOTOSYNTHESIS	A POTTED GREEN PLANT, BLACK PAPER, CLIPS, SCISSOR AND IODINE SOLUTION	
					FACTORS ESSENTIAL FOR PHOTOSYNTHESIS	1			
					FACTORS ESSENTIAL FOR PHOTOSYNTHESIS	2	TO DEMONSTRATE THAT CARBON DIOXIDE IS ESSENTIAL FOR PHOTOSYNTHESIS	TWO SIMILAR HEALTHY POTTED PLANTS, TWO GLASS PLATES, TWO BELL JARS, CRYSTALS OF POTASSIUM HYDROXIDE AND A PETRI DISH	
					HETEROTROPIC NUTRITION	1	TO GROW FUNGI ON BREAD	A SLICE OF BREAD, WATER AND A PLASTIC	
					INSETIVOROUS PLANTS	1			
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES	2			
2	OXFORD INSPIRE	APRIL	2	NUTRITION IN ANIMALS	STAGES OF NUTRITION IN HETEROTROPHS	1			https://video.wixstatic.com/video/f29914_431a5e97bb6b48ae8b048a6122cb9cdc/720p/mp4/file.mp4
					NUTRITION IN AMOEBA	1			
					NUTRITION IN AMOEBA	1			
					NUTRITION IN HUMANS	1	TO STUDY THE ACTION OF SALIVA ON FOOD CONTAINING STARCH	A SLICE OF BREAD, TWO PETRI DISH, IODINE SOLUTION AND SALIVA FROM MOUTH	
					NUTRITION IN HUMANS	1			
					NUTRITION IN RUMINANTS	1			
					DISCUSSION OF REVISION EXERCISES	1			
DISCUSSION OF REVISION EXERCISES	2								
					WOOL	1			https://video.wixstatic.com/video/f29914_682cbf41c9354c379ae0b1c5380ff079/720p/mp4/file.mp4
					WOOL PRODUCTION	2			
					WOOL PRODUCTION	1			

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3	OXFORD INSPIRE	MAY	3	FIBRE TO FABRIC	SILK	2			https://video.wixstatic.com/video/f29914_70eb77c9a4ee4fb98d38da50f2bcfbca/720p/mp4/file.mp4
					SILK PRODUCTION	1			
					OCCUPATIONAL HAZARDS IN SERICULTURE	2			
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES	1			
4	OXFORD INSPIRE	MAY	4	CHEMICALS AND CHEMICAL CHANGE	CHEMICAL SUBSTANCES	1	TO PREPARE COPPER SULPHATE CRYSTALS FROM ITS IMPURE SAMPLE BY CRYSTALLIZATION	A BEAKER, HOT WATER, A STIRRER, A SPOON, COPPER SULPHATE, A CHINA DISH, FILTER PAPER AND FUNNEL	
					HOW THINGS CHANGE	2	TO SHOW THAT OXYGEN AND WATER ARE NECESSARY FOR RUSTING OF IRON	THREE TEST TUBES, IRON NAILS, THREE RUBBER STOPPERS, BOILED WATER, TAP WATER, OIL AND ANHYDROUS CALCIUM CHLORIDE	https://video.wixstatic.com/video/f29914_c25aa3c48c5341f88434462185ffe81/720p/mp4/file.mp4
					HOW THINGS CHANGE	1	TO SHOW THE REACTION BETWEEN BAKING SODA AND VINEGAR	A PLASTIC BOTTLE, A FUNNEL MADE OF PAPER, A BALLOON, BAKING SODA, 50ML VINEGAR	
					REPRESENTING CHEMICAL SUBSTANCES AND CHANGES	1			
					REPRESENTING CHEMICAL SUBSTANCES AND CHANGES	2			
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES				
5	OXFORD INSPIRE	MAY	5	ACIDS BASES AND SALTS	TYPES OF COMPOUNDS	1			
					CLASSIFICATION OF BASES	1			https://video.wixstatic.com/video/f29914_3c42aa0437ff4a2eaaff2f92b09a66c3/720p/mp4/file.mp4
					DETECTING ACIDS AND BASES	1	TO STUDY THE EFFECT OF NATURAL INDICATORS	RED CABBAGE, LICHENS OR LITMUS PAPER, MORTAR PESTLE, BOILING WATER, STRAINER, TEST TUBES, SAMPLE SUBSTANCES	https://video.wixstatic.com/video/f29914_5907d7817f6e481d83c2a8e5a09e89e4/720p/mp4/file.mp4
					DETECTING ACIDS AND BASES	1	TO STUDY A NEUTRALIZATION REACTION	Dil HCl, NaOH, UNIVERSAL INDICATOR, PHENOLPHTHALEIN, DROPPER, FOUR BEAKERS	
					PROPERTIES AND USES OF ACIDS, BASES AND SALTS	1			
					DISCUSSION OF REVISION EXERCISES	1			

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					DISCUSSION OF REVISION EXERCISES	1			
6	OXFORD INSPIRE	JULY	6	TEMPERATURE AND HEAT	TEMPERATURE	2			
					THERMOMETER	2			https://video.wixstatic.com/video/f29914_112a9967e72341acbb8d5e9059047828/720p/mp4/file.mp4
					HEAT AND TRANSFER OF HEAT	2	TO COMPARE THE RATE OF CONDUCTION OF HEAT IN DIFFERENT METALS	THREE RODS OF EQUAL LENGTH AND DIAMETERS(MADE OF COPPER,ALUMINIUM AND IRON) WAX, COMMON PINS, WOODEN BLOCKS,STOPWATCH AND BUNSEN BURNER	
					CONDUCTION OF HEAT	2	TO SHOW THAT HEAT TRANSFER IN WATER IS DUE TO CONVECTION	BEAKER,CLEAR WATER,FOOD COLOUR,CANDLE,MATCHSTICK	
					RADIATION OF HEAT	1			https://video.wixstatic.com/video/f29914_ab025e3535764b61967d41e27a858003/720p/mp4/file.mp4
					DISCUSSION OF REVISION EXERCISES	2			
					DISCUSSION OF REVISION EXERCISES	1			
7	OXFORD INSPIRE	JULY	7	CLIMATE AND ADAPTATION	WEATHER	1			
					WEATHER FORECASTING	1			https://video.wixstatic.com/video/f29914_126ae9a82a3d4ff0a6b1377acbe7245e/720p/mp4/file.mp4
					CLIMATE	2			
					FACTORS AFFECTING CLIMATE OF EARTH	1			
					FACTOR AFFECTING CLIMATE OF A PLACE	2			
					ADAPTATIONS FOR SURVIVAL	2			
					ADAPTATIONS IN ANIMALS IN HOT AND DRY CLIMATE	1			
					DISCUSSION OF REVISION EXERCISES	1			
8	OXFORD INSPIRE	AUGUST	8	SOIL	SOIL FORMATION	1			
					SOIL PROFILE	1			https://video.wixstatic.com/video/f29914_5115c5d62884453bbab80841fb692845/720p/mp4/file.mp4
					SOIL COMPOSITION AND TYPES OF SOIL	2	TO SEPARATE CONSTITUENTS OF SOIL INTO DIFFERENT LAYERS	A SOIL SAMPLE, BEAKER , WATER AND STIRRER	
					PROPERTIES OF SOIL	2	TO CALCULATE THE AMOUNT OF WATER ABSORBED BY TWO DIFFERENT TYPES OF SOIL	TWO CONICAL FLASKS, TWO FUNNEL, TWO FILTER PAPERS,50g EACH OF SAND AND CLAY,WATER, CLAMP STAND AND MEASURING CYLINDER	
					SOIL ANDCROPS	1			

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					SOIL POLLUTION AND EROSION	1			
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES	1			
9	OXFORD INSPIRE	AUGUST	9	RESPIRATION IN ORGANISMS	WHAT IS RESPIRATION	1			https://video.wixstatic.com/video/f29914_f7c100c05b244eada3ec4d8db138d1fb/720p/mp4/file.mp4
					RESPIRATION IN HUMANS	2	TO DEMONSTRATE THE WORKING OF DIAPHRAGM AND LUNGS DURING PROCESS OF BREATHING	A PLASTIC BOTTLE CUT IN HALF, TWO EQUAL-SIZED DRINKING STRAWS, SCISSORS, A RUBBER BAND, ADHESIVE TAPE, TWO BALLOONS, PLAY DOUGH AND A PLASTIC BAG	
					TYPES OF RESPIRATION	2	TO DEMONSTRATE THAT OXYGEN IS USED UP IN AEROBIC RESPIRATION	A CONICAL FLASK, A BEAKER, A CORK WITH A HOLE, A GLASS BENT TUBE, WATER, POTASSIUM HYDROXIDE PELLETS AND GERMINATING SEEDS	https://video.wixstatic.com/video/f29914_f345ba8cdf9b4db19be560c690af72b6/720p/mp4/file.mp4
					RESPIRATION IN OTHER ANIMALS	1			
					RESPIRATION IN PLANTS	1	TO SHOW THAT HEAT IS RELEASED DURING RESPIRATION	TWO VACUUM FLASKS, GERMINATING SEEDS, WET COTTON BALLS AND TWO THERMOMETERS	
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES	1			
10	OXFORD INSPIRE	SEPTEMBER	REVISION	REVISION SERIES	REVISION FOR MID TERM EXAMS	1			
					REVISION FOR MID TERM EXAMS	1			
					REVISION FOR MID TERM EXAMS	1			
					REVISION FOR MID TERM EXAMS	1			
					REVISION FOR MID TERM EXAMS	1			
					REVISION FOR MID TERM EXAMS	1			
					REVISION FOR MID TERM EXAMS	1			
					REVISION FOR MID TERM EXAMS	1			
MID TERM EXAMS									
					TRANSPORT OF SUBSTANCES	1			
					TRANSPORT IN PLANTS	2	TO SHOW WATER LOSS FROM PLANTS DUE TO TRANSPIRATION	A POTTED PLANT AND A TRANSPARENT POLYTHENE BAG	https://video.wixstatic.com/video/f29914_7e79dd9c997e459eba7bb2c942bee35/720p/mp4/file.mp4

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11	OXFORD INSPIRE	OCTOBER	10	TRANSPORT OF SUBSTANCES IN PLANTS AND ANIMALS	TRANSPORT IN ANIMALS	1	TO MEASURE THE PULSE RATE AND HEARTBEAT	A STOPWATCH	https://video.wixstatic.com/video/f29914_4e1f50bec9274bbcac7c5d8d44e3c74b/720p/mp4/file.mp4
					EXCRETORY SYSTEM	2	TO OBSERVE THE MOVEMENT OF SUBSTANCES THROUGH A SEMI PERMEABLE MEMBRANE	A THISTLE FUNNEL,BEAKER,WATER, SUGAR SOL, A CLAMP STAND, A SMALL PIECE OF THREAD AND CELLOPHANE PAPER	
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES	1			
12	OXFORD INSPIRE	OCTOBER	11	REPRODUCTION IN PLANTS	ASEXUAL REPRODUCTION IN PLANTS	2	TO OBSERVE BUDDING IN YEAST	ACTIVE DRY BREAD YEAST,WARM WATER,SUGAR,A BOWL,A SPOON, A DROPPER,DI METHYLENE BLUE,	https://video.wixstatic.com/video/f29914_cb1a86d3471d4b7298833faf63e470ff/720p/mp4/file.mp4
					VEGETATIVE PROPAGATION	2	TO STUDY VEGETATIVE REPRODUCTION IN ONION AND POTATO	TWO POTS FILLED WITH SOIL, WATER, A POTATO WITH EYES, AN ONION	
					SEXUAL REPRODUCTION IN PLANTS	1			
					POLLINATION	2	TO OBSERVE THE REPRODUCTION PARTS OF A FLOWER	DIFFERENT TYPES OF FLOWER, A BLADE AND A MAGNIFYING GLASS	
					ADVANTAGES AND DISADVANTAGES OF SEXUAL REPRODUCTION	1			
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES	1			
13	OXFORD INSPIRE	NOVEMBER	12	TIME AND MOTION	MEASUREMENT OF TIME	2	TO MEASURE THE TIME PERIOD OF A SIMPLE PENDULUM	A SMALL WEIGHT, AN INEXTENSIBLE STRING, TABLE, SOME BOOKS AND STOPWATCH	https://video.wixstatic.com/video/f29914_55e058f1206048e29b00b25c262a7b99/720p/mp4/file.mp4
					SIMPLE PENDULUM	2	TO MEASURE THE SPEED OF MOVING BODIES	A TOY CAR, A MEASURING TAPE, A CHALK AND STOPWATCH	
					SLOW AND FAST MOTION	1			
					AVERAGE SPEED	1			
					DISTANCE-TIME GRAPHS	1			
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES	1			https://video.wixstatic.com/video/f29914_34c89150b4cc41a3b3d029cb7396c23f/720p/mp4/file.mp4
				ELECTRIC CIRCUIT	2	TO DEMONSTRATE THE HEATING EFFECT OF ELECTRIC CURRENT	A 100W BULB, A HOLDER AND A SOURCE OF POWER		

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14	OXFORD INSPIRE	NOVEMBER	13	ELECTRIC CURRENTS AND ITS EFFECTS	ELECTRIC CIRCUIT	2	TO SHOW THE MAGNETIC EFFECT OF CURRENT	A COPPER WIRE, FOUR 1.5V CELLS, A SWITCH, A BULB AND A SMALL MAGNETIC COMPASS	https://video.wixstatic.com/video/f29914_2518304ec3964beeb80c96b95b6c021c/720p/mp4/file.mp4
					HEATING EFFECT OF CURRENT	2	TO MAKE AN ELECTROMAGNET	A LONG COPPERWIRE. A LONG IRON NAIL, 1.5V CELL AND SOME SAFETY PINS	
					HEATING EFFECT OF CURRENT	2			
					MAGNETIC EFFECT OF CURRENT	1			
					DISCUSSION OF REVISION EXERCISES	1			
15	OXFORD INSPIRE	DECEMBER	14	WIND AND STORM	AIR AND ITS PROPERTIES	1			
					AIR AND ITS PROPERTIES	1			
					WIND	2	TO PROVE THAT AIR EXERTS PRESSURE	A BOTTLE, A BOWL WITH HOT WATER AND A BALLOON	https://video.wixstatic.com/video/f29914_5e8396cfc5f4e2191a89d7e25c77f5d/720p/mp4/file.mp4
					STORM	1			
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES	1			
16	OXFORD INSPIRE	DECEMBER	15	LIGHT	PROPERTIES OF LIGHT	1			
					PLANE MIRRORS	1			
					SPHERICAL MIRRORS	2	TO SHOW THAT LIGHT TRAVELS IN STARIGHT LINE	A PLANE MIRROR, CHESS BOARD ANY CHESS PIECE AND A PLANE PAPER SHEET	
					LENSES	1			
					LIGHT AND COLOURS	1			
					DISCUSSION OF REVISION EXERCISES	2			
					DISCUSSION OF REVISION EXERCISES	2			
17	OXFORD INSPIRE	DECEMBER	16	WATER: A PRECIOUS RESOURCE	FORMS AND SOURCES OF WATER	1			
					WATER CYCLE	1			https://video.wixstatic.com/video/f29914_ec5e836fc5d9408c950034dceaf4a4b9/720p/mp4/file.mp4
					AVAILABILITY OF WATER IN INDIA	1			
					CONSERVATION OF WATER	2			https://video.wixstatic.com/video/f29914_87cbe388b8bc4e39b06463ea5291d9f6/720p/mp4/file.mp4
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES	1			
					FOREST	1			
					IMPORTANCE OF FORESTS	1			
					INTERDEPENDENCE OF PLANTS AND ANIMALS	1			

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18	OXFORD INSPIRE	JANUARY	17	FORESTS: OUR LIFELINE	FORESTS UNDER THREAT	1			
					WHAT CAN WE DO TO CONSERVE OUR FORESTS	1			https://video.wixstatic.com/video/f29914_86d81089933a4aa6be6d5589c5b999c0/720p/mp4/file.mp4
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES	1			
19	OXFORD INSPIRE	FEBRUARY	18	WASTEWATER MANAGEMENT	SOURCES OF WASTEWATER	1			
					SEWERS AND SEWAGE SYSTEM	1			
					SEWAGE DISPOSAL AND SANITATION	1			
					ALTERNATIVE METHODS OF SEWAGE DISPOSAL	1			
					DISCUSSION OF REVISION EXERCISES	1			
					DISCUSSION OF REVISION EXERCISES	1			
					Revision for Final Exam	2			
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