

THEWISDOMGLOBAL SCHOOL									
SYLLABUS BIFURCATION									
GRADE 7									
SUBJECT:-SCIENCE									
NAME OF BOOKS: OXFORD INSPIRE									
YEAR 2025- 2026									
NAME OF THE TEACHER:-Ms.MANIKASHARMA									
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, PETRIDISH, 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 PETRIDISH	
					HETEROTROPIC NUTRITION	1	TO GROW FUNGUS ON BREAD	A SLICE OF BREAD, WATER AND A PLASTIC	
					INSECTIVOROUS 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 PETRIDISH, 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	OXFORDINSPIRE	MAY	3	FIBRETOFABRIC	SILK	2			https://video.wixstatic.com/video/f29914_70eb77c9a4ee4fb98d38da50f2bcfbca/720p/mp4/file.mp4
					SILKPRODUCTION	1			
					OCCUPATIONALHAZARDSIN SERICULTURE	2			
					DISCUSSION OF REVISIONEXERCISES	1			
					DISCUSSIONOFREVISION EXERCISES	1			
4	OXFORDINSPIRE	MAY	4	CHEMICALS ANDCHEMICALCHANGE	CHEMICALSUBSTANCES	1	TO PREPARE COPPER SULPHATECRYSTALS FROM ITS IMPURESAMPLE BY CRYSTALLIZATION	A BEAKER, HOT WATER, ASTIRRER, A SPOON, COPPERSULPHATE, A CHINA DISH, FILTERPAPER AND FUNNEL	
					HOWTHINGSCHANGE	2	TO SHOWTHAT OXYGEN ANDWATER ARE NECESSARY FORRUSTING OF IRON	THREE TEST TUBES,IRONNAILS,THREE RUBBERSTOPPERS, BOILED WATER, TAPWATER, OIL AND ANHYDROUSCALCIUMCHLORIDE	https://video.wixstatic.com/video/f29914_c25aa3c48c5341f88434462185ffe81/720p/mp4/file.mp4
					HOWTHINGSCHANGE	1	TO SHOW THE REACTIONBETWEEN BAKING SODA ANDVINEGAR	A PLASTIC BOTTLE, A FUNNELMADE OF PAPER, A BALLOON,BAKINGSODA,50MLV INEGAR	
					REPRESENTING CHEMICALSUBSTANCES ANDCHANGES	1			
					REPRESENTING CHEMICALSUBSTANCES ANDCHANGES	2			
					DISCUSSION OF REVISIONEXERCISES	1			
					DISCUSSIONOFREVISION EXERCISES				
5	OXFORDINSPIRE	MAY	5	ACIDSBASESANDSALT S	TYPESOFCOMPOUNDS	1			
					CLASSIFICATIONOFBASES	1			https://video.wixstatic.com/video/f29914_3c42aa0437ff4a2eaaff2f92b09a66c3/720p/mp4/file.mp4
					DETECTING ACIDS ANDBASES	1	TO STUDY THE EFFECT OFNATURALINDICATORS	RED CABBAGE, LICHENS ORLITMUSPAPER,MORTARPESTLE, BOILING WATER,STRAINER, TEST TUBES, SAMPLESUBSTANCES	https://video.wixstatic.com/video/f29914_5907d7817f6e481d83c2a8e5a09e89e4/720p/mp4/file.mp4
					DETECTING ACIDS ANDBASES	1	TO STUDY A NEUTRALIZATIONREACTION	Dil HCl, NaOH, UNIVERSALINDICATOR,PHENOLPHTHALEIN,DROPPER, FOUR BEAKERS	
					PROPERTIES AND USES OFACIDS, BASES AND SALTS	1			
					DISCUSSION OF REVISIONEXERCISES	1			

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					DISCUSSION OF REVISIONEXERCISES	1			
6	OXFORDINSPIRE	JULY	6	TEMPERATURE ANDHEAT	TEMPERATURE	2			
					THERMOMETER	2			https://video.wixstatic.com/video/f29914_112a9967e72341acbb8d5e9059047828/720p/mp4/file.mp4
					HEAT AND TRANSFER OFHEAT	2	TO COMPARE THE RATE OFCONDUCTION OF HEAT INDIFFERENT METALS	THREE RODS OF EQUAL LENGTHAND DIAMETERS(MADE OFCOPPER,ALUMINIUM AND IRON)WAX, COMMON PINS, WOODENBLOCKS,STOPWATCH ANDBUNSENBURNER	
					CONDUCTIONOFHEAT	2	TO SHOW THAT HEAT TRANSFERIN WATER IS DUE TOCONVECTION	BEAKER,CLEARWATER,FOODCOLOUR,CANDLE,MATCHSTICK	
					RADIATIONOFHEAT	1			https://video.wixstatic.com/video/f29914_ab025e3535764b61967d41e27a858003/720p/mp4/file.mp4
					DISCUSSION OF REVISIONEXERCISES	2			
					DISCUSSIONOFREVISION EXERCISES	1			
7	OXFORDINSPIRE	JULY	7	CLIMATEANDADAPTATION	WEATHER	1			
					WEATHERFORECASTING	1			https://video.wixstatic.com/video/f29914_126ae9a82a3d4ff0a6b1377acbe7245e/720p/mp4/file.mp4
					CLIMATE	2			
					FACTORS AFFECTINGCLIMATE OF EARTH	1			
					FACTORAFFECTING CLIMATEOFAPLACE	2			
					ADAPTATIONS FORSURVIVAL	2			
					ADAPTATIONS IN ANIMALSINHOTANDDRYCLIMATE	1			
8	OXFORDINSPIRE	AUGUST	8	SOIL	DISCUSSION OF REVISIONEXERCISES	1			
					SOILFORMATION	1			
					SOILPROFILE	1			https://video.wixstatic.com/video/f29914_5115c5d62884453bbab80841fb692845/720p/mp4/file.mp4
					SOIL COMPOSITION ANDTYPES OF SOIL	2	TO SEPARATECONSTITUENTSOFSOIL INTO DIFFERENTLAYERS	A SOIL SAMPLE, BEAKER ,WATER AND STIRRER	
					PROPERTIESOFSOIL	2	TO CALCULATE THE AMOUNT OFWATER ABSORBED BY TWODIFFERENT TYPES OF SOIL	TWO CONICAL FLASKS, TWOFUNNEL, TWO FILTERPAPERS,50g EACH OF SAND ANDCLAY,WATER, CLAMP STANDAND MEASURING CYLINDER	

					SOILANDCROPS	1			
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					SOIL POLLUTION ANDEROSION	1			
					DISCUSSIONOFREVISION EXERCISES	1			
					DISCUSSION OF REVISIONEXERCISES	1			
9	OXFORDINSPIRE	AUGUST	9	RESPIRATIONINORGANISMS	WHATISRESPIRATION	1			https://video.wixstatic.com/video/f29914_f7c100c05b244eada3ec4d8db138d1fb/720p/mp4/file.mp4
					RESPIRATIONINHUMANS	2	TO DEMONSTRATE THEWORKING OF DIAPHRAGM ANDLUNGS DURING PROCESS OFBREATHING	A PLASTIC BOTTLEVUT INHALF,TWO EQUAL-SIZEDDRINKING STRAWS,SCISSORS, ARUBBER BAND, ADHESIVETAPE,TWO BALLOONS, PLAYDOUGH AND A PLASTIC BAG	
					TYPESOFRESPIRATION	2	TO DEMONSTRATE THATOXYGEN IS USED UP IN AEROBICRESPIRATION	A CONICAL FLASK, A BEAKER, ACORK WITH A HOLE, A GLASSBENT TUBE,WATER, POTASSIUMHYDROXIDE PELLETS ANDGERMINATING SEEDS	https://video.wixstatic.com/video/f29914_f345ba8cdf9b4db19be560c690af72b6/720p/mp4/file.mp4
					RESPIRATION IN OTHERANIMALS	1			
					RESPIRATIONINPLANTS	1	TO SHOW THAT HEAT ISRELEASEDDURINGRESPIRATION	TWO VACUUM FLASKS,GERMINATING SEEDS, WETCOTTON BALLS AND TWO THERMOMETERS	
					DISCUSSION OF REVISIONEXERCISES	1			
					DISCUSSIONOFREVISION EXERCISES	1			
10	OXFORDINSPIRE	SEPTEMBER	REVISION	REVISIONSERIES	REVISION FOR MID TERMEXAMS	1			
					REVISIONFORMIDTERM EXAMS	1			
					REVISION FOR MID TERMEXAMS	1			
					REVISIONFORMIDTERM EXAMS	1			
					REVISION FOR MID TERMEXAMS	1			
					REVISIONFORMIDTERM EXAMS	1			
					REVISION FOR MID TERMEXAMS	1			
					REVISIONFORMIDTERM EXAMS	1			
MIDTERMEXAMS									
					TRANSPORTOFSUBSTANCES	1			
					TRANSPORTINPLANTS	2	TO SHOW WATER LOSS FROMPLANTS DUE TO TRANSPIRATION	A POTTED PLANT AND ATRANSPARENT POLYTHENE BAG	https://video.wixstatic.com/video/f29914_7e79dd9c997e459eba7bb2c942bee/b35/720p/mp4/file.mp4

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11	OXFORDINSPIRE	OCTOBER	10	TRANSPORT OF SUBSTANCES IN PLANTS AND ANIMALS	TRANSPORT IN ANIMALS	1	TO MEASURE THE PULSE RATE AND HEART BEAT	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	OXFORDINSPIRE	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, DIMETHYLENE 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	OXFORDINSPIRE	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	OXFORDINSPIRE	NOVEMBER	13	ELECTRICCURRENTS AND ITSEFFECTS	ELECTRICCIRCUIT	2	TO SHOW THE MAGNETICEFFECT OF CURRENT	A COPPER WIRE, FOUR 1.5VCELLS, A SWITCH, A BULB AND A SMALL MAGNETIC COMPASS	https://video.wixstatic.com/video/f29914_2518304ec3964beeb80c96b95b6c021c/720p/mp4/file.mp4
					HEATING EFFECT OFCURRENT	2	TOMAKEANELECTROMAGNET	A LONG COPPERWIRE. A LONGIRON NAIL, 1.5V CELL AND SOMESAFETY PINS	
					HEATINGEFFECTOF CURRENT	2			
					MAGNETIC EFFECT OFCURRENT	1			
					DISCUSSIONOFREVISION EXERCISES	1			
15	OXFORDINSPIRE	DECEMBER	14	WINDANDSTORM	AIRANDITSPROPERTIES	1			
					AIRANDITSPROPERTIES	1			
					WIND	2	TO PROVE THAT AIR EXERTSPRESSURE	A BOTTLE, A BOWL WITH HOTWATER AND A BALLOON	https://video.wixstatic.com/video/f29914_5e8396cfd5f4e2191a89d7e25c77f5d/720p/mp4/file.mp4
					STORM	1			
					DISCUSSION OF REVISIONEXERCISES	1			
					DISCUSSIONOFREVISION EXERCISES	1			
16	OXFORDINSPIRE	DECEMBER	15	LIGHT	PROPERTIESOFLIGHT	1			
					PLANEMIRRORS	1			
					SPHERICALMIRRORS	2	TO SHOW THAT LIGHT TRAVELSIN STARIGHT LINE	A PLANE MIRROR, CHESS BOARDANY CHESS PIECE AND A PLANEPAPERSHEET	
					LENSES	1			
					LIGHTANDCOLOURS	1			
					DISCUSSION OF REVISIONEXERCISES	2			
					DISCUSSIONOFREVISION EXERCISES	2			
17	OXFORDINSPIRE	DECEMBER	16	WATER: A PRECIOUSRESOURCE	FORMS AND SOURCES OFWATER	1			
					WATERCYCLE	1			https://video.wixstatic.com/video/f29914_ec5e836fc5d9408c950034dceafab9/720p/mp4/file.mp4
					AVAILABILITY OF WATER ININDIA	1			
					CONSERVATIONOFWATER	2			https://video.wixstatic.com/video/f29914_87cbe388b8bc4e39b06463ea5291d9f6/720p/mp4/file.mp4
					DISCUSSION OF REVISIONEXERCISES	1			
					DISCUSSIONOFREVISION EXERCISES	1			
					FOREST	1			
					IMPORTANCEOFFORESTS	1			
					INTERDEPENDENCE OFPLANTS AND ANIMALS	1			

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18	OXFORDINSPIRE	JANUARY	17	FORESTS:OURLIFELINE	FORESTSUNDERTHREAT	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	OXFORDINSPIRE	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			
						2			
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						2			
						181			