

THE WISDOM GLOBAL SCHOOL								
SYLLABUS BIFURCATION								
GRADE 5								
SUBJECT:- SCIENCE								
NAME OF BOOK: XSEED								
YEAR 2025-26								
NAME OF THE TEACHER:- MS. PRIYA PANDEY								
S No.	BOOK NAME	MONTH	BLOCK NUMBER	BLOCK NAME	SUB-TOPICS	NO. OF PERIODS REQUIRED	ACTIVITY/PROPS	MATERIAL NEEDED
1	XSEED	APRIL	1	SEXUAL REPRODUCTION IN PLANTS	REPRODUCTIVE PARTS OF A FLOWER	1	Dissect a flower and read the functions from a chart	Hibiscus flower, a pair of scissors, white paper plate
					PRACTICE QUESTIONS 1-3	1		
					POLLINATION	1	Analyze charts and differentiate self-from cross-pollination	2 charts of pollination
					PRACTICE QUESTIONS 1-3	1		
					FERTILIZATION AND SEED FORMATION	1	Read chart and draw flowchart on fertilization and seed formation	2 charts of fertilization
					PRACTICE QUESTIONS 1-3	1		
					REPRODUCTION IN NON-FLOWERING PLANTS	1	Arrange picture cards of different stages in a fern's life cycle	5 picture cards showing stages in the life cycle
2	XSEED	APRIL	2	SEED DISPERSAL	PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					DISPERSAL BY WIND	1	Conduct experiment to understand how seeds are dispersed by wind	Paper models of seeds
					PRACTICE QUESTIONS 1-3	1		
					DISPERSAL BY WATER	1	Demonstrate that water-dispersed fruit/seeds can float on water.	water, coconut, black lentils, dried betel nuts
					PRACTICE QUESTIONS 1-3	1		
					DISPERSAL BY ANIMALS	1	Demonstrate dispersal of seeds by animals	A woollen sock, ball, velcro
3	XSEED	MAY	3	SEED GERMINATION	PRACTICE QUESTIONS 1-3	1		
					DISPERSAL BY EXPLOSIVE ACTION	1	Analyze pictures of different seed pods and discuss the features	A chart
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					PARTS OF A SEED	1	Observe a dissected kidney bean seed and identify the parts	kidney beans, surgical blade, a chart of dicot seed
					PRACTICE QUESTIONS 1-3	1		
					CONDITIONS NECESSARY FOR GERMINATION	1	Conduct an experiment to identify conditions for seed germination	black polythene, rubber band
4	XSEED	MAY	4	ASEXUAL REPRODUCTION IN PLANTS	PRACTICE QUESTIONS 1-3	1		
					PROCESS OF GERMINATION	1	Observe the stages of seed germination and deduce the process	stages of germination
					PRACTICE QUESTIONS 1-3	1		
					FACTORS AFFECTING GERMINATION	1	Analyze data and identify the role of seasons in seed germination	A chart of germination of seeds
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					VEGETATIVE PROPAGATION-ROOTS	1	Compare propagation features of sweet potato and rose plant roots	different charts
5	XSEED	MAY	5	CULTIVATING CROPS	PRACTICE QUESTIONS 1-3	1		
					VEGETATIVE PROPAGATION-STEMS	1	Compare propagation features of onion and potato plants	Ab onion, a potato, water, toothpicks, a prepared sample
					PRACTICE QUESTIONS 1-3	1		
					VEGETATIVE PROPAGATION-LEAVES	1	observe how a section of the sansevieria leaf is planted	A leaf of sansevieria, blade, pot with soil, a prepared sample
					PRACTICE QUESTIONS 1-3	1		
					ASEXUAL REPRODUCTION: NATURAL AND ARTIFICIAL	1	Look at pictures of asexual reproduction and share differences	Chart
					PRACTICE QUESTIONS 1-3	1		
6	XSEED	JULY	6	TYPES OF ADAPTION	REFLECTION ACTIVITY	1		
					IMPORTANT STEPS OF CROP PRODUCTION	1	Observe pictures and sequence the stages of cultivation	picture cards of crop cultivation
					PRACTICE QUESTIONS 1-3	1		
					TYPES OF CROPS	1	Sort the crops based on the growing season	chart with 5x5 table
					PRACTICE QUESTIONS 1-3	1		
					ORGANIC AND INORGANIC FERTILIZERS	1	Differentiate between the 2 samples of FERTILIZERS	organic fertilizer, inorganic fertilizer, water, spoons, gloves
					PRACTICE QUESTIONS 1-3	1		
7	XSEED	JULY	8	CIRCULATORY SYSTEM	GOOD CULTIVATION PRACTICES	1	Discuss benefits of good cultivation practices	A chart showing pictures of good cultivation practices
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					ADAPTATION IN MOVEMENT	1	Observe fish and pictures of animals to know how they move	Fishbowl with a small fish
					PRACTICE QUESTIONS 1-3	1		
					ADAPTATION IN BODY COVERING	1	Sort animal flashcards based on their body coverings	10 flashcards
					PRACTICE QUESTIONS 1-3	1		
8	XSEED	AUGUST	9	BONES, JOINTS, AND MUSCLES	ADAPTATION IN BREATHING ORGANS	1	observe fish and animal pictures and find their breathing organs	A chart and a fish in a fishbowl
					PRACTICE QUESTIONS 1-3	1		
					ADAPTATION IN EATING AND SOCIAL HABITS	1	Analyze pictures to know adaptations in eating/social habits	A chart showing different types of teeth in animals
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					ORGANS IN THE CIRCULATORY SYSTEM	1	Compare the road network of a city with the circulatory system	A road map of a city, chart of circulatory system
					PRACTICE QUESTIONS 1-3	1		
9	XSEED	AUGUST	10	MOVABLE JOINTS	HEART, BLOOD VESSELS, AND BLOOD	1	Demonstrate the pumping action of the heart using a working model	food colour, plastic tray, chart showing model of a heart pump
					PRACTICE QUESTIONS 1-3	1		
					PROCESS OF CIRCULATION	1	Arrange label cards to create a flow chart on blood circulation	drawing sheet, scissors, glue, a chart
					PRACTICE QUESTIONS 1-3	1		
					HEART RATE AND EXERCISE	1	Perform a physical exercise and measure the heart rate	-
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					BONES	1	Play simon says and identify the bones that aid movement	A chart of human skeleton
					PRACTICE QUESTIONS 1-3	1		
					JOINTS	1	Locate different types of joints in the body	2 ice cream sticks, rubber band
					PRACTICE QUESTIONS 1-3	1		
						1	Analyze a chart and discuss how skeletal muscles work in pairs	
					MUSCLES	1		A chart showing how muscles work
					PRACTICE QUESTIONS 1-3	1		
					OUR BODY MOVEMENTS	1	Do some actions and identify the elements of movement	A chart
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					BALL AND SOCKET JOINTS	1	Make a model of the ball and socket joint	ball-and-socket joint
					PRACTICE QUESTIONS 1-3	1		
					HINGE JOINTS	1	Compare hinges of a pencil box to hinge joints	A pencil box with hinges
					PRACTICE QUESTIONS 1-3	1		
					PIVOT JOINTS	1	perform physical activities to understand pivot joint functions	A chart showing structure of a pivot joint
					PRACTICE QUESTIONS 1-3	1		

					GLIDING JOINTS	1	Perform physical activities to know functions of gliding joints	2 wooden cubes
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					MID TERM ASSESSMENT			
10	XSEED	SEPTEMBER	11	FOOD AND NUTRITION	NUTRIENTS AND FOOD	1	Observe a chart and discuss uses of different nutrients	A chart showing sources and functions of different nutrients
					PRACTICE QUESTIONS 1-3	1		
							Look at the chart showing a healthy food plate and fill the table	A chart showing a balanced diet
					BALANCED DIET	1		
					PRACTICE QUESTIONS 1-3	1		
					JUNK FOOD AND HEALTHY FOOD	1	Look at nutrients labels and compare them	An empty packet of chips, paper slip with nutritional
					PRACTICE QUESTIONS 1-3	1		
							Analyze the need for nutrients and predict the outcome, if absent	A chart showing images of deficiency diseases
					DEFICIENCY OF NUTRIENTS	1		
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
11	XSEED	OCTOBER	12	HEALTH AND DISEASES			sort diseases into different types using identification key	2 different charts
					TYPES OF DISEASES	1		
					PRACTICE QUESTIONS 1-3	1		
					COMMUNICABLE DISEASES	1	Role- play and demonstrate the spread of diseases	Golden glitter, hand lotion in a pumping bottle, bubble maker with soap water
					PRACTICE QUESTIONS 1-3	1		
					NON-COMMUNICABLE DISEASES	1	Read case studies and predict types of NON-COMMUNICABLE diseases	2 different charts
					PRACTICE QUESTIONS 1-3	1		
							Read case studies and match them with their preventive measures	2 different charts
					PREVENTING DISEASES	1		
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
12	XSEED	OCTOBER	14	ENERGY AND ITS SOURCES	WORK AND ENERGY	1	Perform actions and discuss if work is done and energy is used	A ball and a book
					PRACTICE QUESTIONS 1-3	1		
							Look at different things and discuss the form of energy they have.	A battery, a matchbox, a candle, a flashlight, a whistle, a charoer, and an alarm clock, ball
					FORMS AND SOURCES OF ENERGY	1		
					PRACTICE QUESTIONS 1-3	1		
					CONVERSION OF ENERGY	1	Perform actions and discuss the energy transformation in each	A flashlight, a whistle a toy car
					PRACTICE QUESTIONS 1-3	1		
							Read about various energy sources and compare them	2 different charts
					RENEWABLE AND NON-RENEWABLE ENERGY	1		
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
13	XSEED	NOVEMBER	15	SIMPLE MACHINES	WORK AND MACHINE	1	Note where force or EFFORT is applied and where the work is done	Scissors, a paper, 2 kg weight, ruler, books, rope, apple, knife, tweezer, corkscrew and cork, a toy car and a cvlindrical rod
					PRACTICE QUESTIONS 1-3	1		
					WHEEL AND AXLE AND PULLEY	1	Observe how dough is rolled, and how a trolley and a well work	A rolling pin and play dough, a simple model of a pulley made using a cylindrical rod or pencil, rope, and a heavy object
					PRACTICE QUESTIONS 1-3	1		
					INCLINED PLANE SCREW AND WEDGE	1	Observe how a corkscrew, screwdriver and an inclined ramp work	screwdriver and a screw fixed on any machine parts like switch box.
					PRACTICE QUESTIONS 1-3	1		
					TYPES OF LEVERS	1	Point out load, effort, and fulcrum in different types of levers	Scissors, paper, nutcracker and a nut, stapler and pieces of paper
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
14	XSEED	NOVEMBER	16	SOUND AND NOISE	SOUNDS AROUND US	1	Make a sound box to observe vibrations and hear sound	band
					PRACTICE QUESTIONS 1-3	1		
							observe how sound travels and is heard	2 Plastic jars, water, small metal bell
					HEARING OF SOUND	1		
					PRACTICE QUESTIONS 1-3	1		
					LOUD SOUND	1	Look at the chart and analyse different sounds and their effects.	and a speaker
					PRACTICE QUESTIONS 1-3	1		
					NOISE POLLUTION	1	Produce various sounds and discuss ways to reduce noise pollution	A thermocol box, a small towel, a phone with audio clips
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
15	XSEED	DECEMBER	18	THREE STATES OF MATTER	SOLIDS, LIQUIDS AND GASES	1	Observe particle arrangement in matter and analyse the properties	25 to 30 marbles, a pencil box
					PRACTICE QUESTIONS 1-3	1		
					CHANGE OF STATE	1	Infer the effect of heat or cold on matter from an experiment	2 ice cubes , beaker, spirit lamp, pair of tongs.
					PRACTICE QUESTIONS 1-3	1		
					EVAPORATION	1	Observe and compare evaporation and boiling	a bowl of water, a cotton cloth, beaker, water, spirit lamp, a pair of tongs
					PRACTICE QUESTIONS 1-3	1		
					INTERACTION BETWEEN SOLIDS AND LIQUIDS	1	Observe experiments to analyse how solids interact with liquids	filled with water, a funnel, 4 filter papers, 2 conical flasks a
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
16	XSEED	DECEMBER	19	AIR AND ATMOSPHERE	USES OF AIR	1	Analyze the uses of the different components of air	A graph, a chart a candle, a glass tumbler and a box of matches
					PRACTICE QUESTIONS 1-3	1		
					LAYERS OF THE ATMOSPHERE	1	Read the clues from a chart and relate the use with each layer	A chart,
					PRACTICE QUESTIONS 1-3	1		
					ATMOSPHERE REGULATES THE TEMPERATURE	1	Relate the greenhouse effect in a glass bottle with that on Earth	tape,a chart
					PRACTICE QUESTIONS 1-3	1		
							Analyze a chart to understand how land and sea Breezes are formed	A convection box with a burning candle below one opening, a few incense sticks, a matchbox, a small candle
					WIND FORMATION	1		
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		

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