

THE WISDOM GLOBAL SCHOOL SYLLABUS BIFURCATION GRADE 4 SUBJECT:- SCIENCE NAME OF BOOK: XSEED YEAR 2024-25 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	ALL ABOUT LEAVES	PARTS OF A LEAF	1	Trace a leaf on paper and relate its parts to their functions	parts of a leaf, table showing the structure and functions
					PRACTICE QUESTIONS 1-3	1		
					LEAVES - KITCHEN OF THE PLANTS	1	Look at the picture to predict how leaves make food	photosynthesis chart.
					PRACTICE QUESTIONS 1-3	1		
					TEST FOR STARCH IN LEAVES	1	look at the demonstration of the leaf starch test	holder, petri dish, tweezer, iodine solution, dropper,
					PRACTICE QUESTIONS 1-3	1		
					TRANSPIRATION	1	look at the demonstration that shows transpiration	scissors
2	XSEED	APRIL	2	ADAPTATIONS IN TERRESTRIAL PLANTS	PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					TERRESTRIAL HABITS FOR PLANTS	1	analyse the chart and discuss the habits of terrestrial plants	neem, cactus, pine tree
					PRACTICE QUESTIONS 1-3	1		
					PLANT ADAPTATIONS IN PLAINS	1	analyse and discuss features of plants growing in plains	chart showing leaves of evergreen and deciduous trees
					PRACTICE QUESTIONS 1-3	1		
					PLANT ADAPTATIONS ON MOUNTAINS	1	look at the leaves of a pine tree and identify their features	tree and it's leaves
3	XSEED	MAY	3	ADAPTATION IN DIFFERENT PLANTS	PRACTICE QUESTIONS 1-3	1		
					PLANT ADAPTATIONS IN DESERTS	1	observe an aloe vera leaf and relate its features to its habitat	aloe vera leaf
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					AQUATIC PLANTS	1	analyse the features of different aquatic plants	plant
					PRACTICE QUESTIONS 1-3	1		
					INSECTIVOROUS PLANTS	1	analyse the features of insectivorous plants	a pot with Venus flytrap plant or its picture , a toothpick
4	XSEED	MAY	4	PLANTS FOR US	PRACTICE QUESTIONS 1-3	1		
					PARASITIC PLANTS	1	analyse the features of parasitic and mycoheterotrophic plants	chart showing mycohetero trophic plant
					PRACTICE QUESTIONS 1-3	1		
					PLANTS WITH MODIFIED ROOTS	1	sort roots under different roots and discuss modified features	dodder plant , pea plant and a close up of its bulging roots
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					PLANTS IN THE WILD	1	look at the chart and discuss how forests help people	Chart showing different trees that grow in forests, A bamboo basket, a wooden pencil, eraser, candies, berry jam
5	XSEED	MAY	5	CLASSIFYING LIVING THINGS	PRACTICE QUESTIONS 1-3	1		
					PLANTS THAT NEED CARE	1	look at the wild and cultivated plants and spot the differences	A chart showing pictures of wild plants and plants grown in field. chart showing different steps of farming
					PRACTICE QUESTIONS 1-3	1		
					FARMERS AND CROPS	1	observe picture cards of the journey of food and arrange in order	Chart showing journey of food, paper slips describing the journey of food, one forth chart paper
					PRACTICE QUESTIONS 1-3	1		
					TYPES OF CROPS	1	sort products based on the type of crops they are obtained from	chart showing the classification of crops, rice grains, wheat grains, bengal gram, peanuts, cumin seeds, a potato, and orange
					PRACTICE QUESTIONS 1-3	1		
6	XSEED	JULY	6	ADAPTATION IN ANIMALS	REFLECTION ACTIVITY	1		
					GROUPING OF LIVING THINGS	1	read and classify living things into different groups	1 Chart showing the classification of living
					PRACTICE QUESTIONS 1-3	1		
					FLOWERING AND NON FLOWERING PLANTS	1	observe samples and write the differences	1 flowering plant
					PRACTICE QUESTIONS 1-3	1		
					ANIMALS WITH AND WITHOUT BACKBONES	1	sort animals into vertebrates and invertebrates	
					PRACTICE QUESTIONS 1-3	1		
7	XSEED	JULY	7	FOOD HABITS OF ANIMALS	ANIMALS WITH BACKBONES	1	look at the picture cards and write about the features of animals	Picture cards of 8 animals with labelled body parts
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					ANIMALS AROUND US	1	Sort flash cards and discuss adaptive features	6 flashcards showing 2 animals of each - land, arboreal and aerial
					PRACTICE QUESTIONS 1-3	1		
					ANIMALS IN EXTREME HABITATS	1	look at the chart and discuss the adaptive features	Chart showing different adaptive features
					PRACTICE QUESTIONS 1-3	1		
8	XSEED	AUGUST	8	OUR TEETH	ANIMALS LIVING IN WATER	1	observe a fish in a fish bowl and discuss its adaptive features	fish in a fishbowl, chart showing a dolphin and a duck
					PRACTICE QUESTIONS 1-3	1		
					ADAPTATION FOR PROTECTION	1	guess the features that helps animals protect themselves	chart showing horse, chameleon, buffalo and porcupine
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					EATING HABITS OF ANIMALS	1	sort animals according their food habits	chart showing different animals eating different foods
					PRACTICE QUESTIONS 1-3	1		
9	XSEED	AUGUST	9	DIGESTIVE SYSTEM	TEETH STRUCTURE AND FOOD HABITS	1	look at pictures of the teeth of animals and guess what they eat	chart with 3 big pictures of the front teeth of a tiger, a zebra, and a bear
					PRACTICE QUESTIONS 1-3	1		
					SPECIAL WAYS OF EATING	1	compare pictures of animals eating food	pictures of animals eating a frog , elephant , dog and a snake
					PRACTICE QUESTIONS 1-3	1		
					FOOD CHAIN	1	link the picture cards of plants and animals with arrows	4 picture cards showing a carrot, rabbit, fox and lion
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
	XSEED	AUGUST	9	DIGESTIVE SYSTEM	PERMANENT AND TEMPORARY TEETH	1	Look at the chart showing permanent and temporary teeth	chart showing temporary and permanent teeth
					PRACTICE QUESTIONS 1-3	1		
							note shapes of different teeth that helps you in different ways	model of permanent teeth with different types of teeth coloured differently and labelled, a plate with 2 biscuits and almonds
					TYPES OF TEETH	1		
					PRACTICE QUESTIONS 1-3	1		
					PARTS OF A TOOTH	1	read the functions and identify the parts of a tooth	parts of a tooth labelled on chart, 4 chips of paper with text - it fixes the tooth in its place , it protects the tooth from wear and tear, it supports the enamel of tooth, it provides nutrition to the tooth
					PRACTICE QUESTIONS 1-3	1		
	XSEED	AUGUST	9	DIGESTIVE SYSTEM	TAKING CARE OF TEETH	1	read the actions written on chips and identify which are harmful	8 chips of paper with some instructions
					PRACTICE QUESTIONS 1-3	1		
					REFLECTION ACTIVITY	1		
					ORGANS OF DIGESTION	1	arrange organs of digestive system to discuss the journey of food	Play cards of digestive organs
					PRACTICE QUESTIONS 1-3	1		
					TEETH , TONGUE AND SALIVA	1	perform activity and discuss roles of teeth, tongue and saliva	3 biscuits, 1 plastic zip lock bag, 1 glass of water
					PRACTICE QUESTIONS 1-3	1		
	XSEED	AUGUST	9	DIGESTIVE SYSTEM	PROCESS OF DIGESTION	1	perform an experiment to know the rules of the digestive organs	2 table spoons of meshed banana, 9 mm straw, 80 ml carbonated water , 1 zip pouch, 1 plastic glass
					PRACTICE QUESTIONS 1-3	1		

					HEALTHY EATING HABITS PRACTICE QUESTIONS 1-3 REFLECTION ACTIVITY	1 1 1	read actions and sort them as healthy and unhealthy eating habits	Slips of paper with healthy and unhealthy actions, 1 roll of double sided tape
10	XSEED	SEPTEMBER	10	EXCRETORY SYSTEM	ORGANS OF EXCRETION PRACTICE QUESTIONS 1-3	1 1	identify the organs that helps in removing waste	picture showing a release of liquid and gaeous waste products of a house, chart showing lungs, skin, urinary svstem, rectum, and anus in human body
					ORGANS OF THE URINARY SYSTEM PRACTICE QUESTIONS 1-3 IMPORTANCE OF THE URINARY SYSTEM PRACTICE QUESTIONS 1-3	1 1 1 1	make a model of the urinary system demonstrate an discuss the filtration of blood to form urine	2 paper cups with a hole at the bottom and 2 cotton balls, 2 plastic straws, 1 zip lock bag, chart paper , tape , pair of scissors glass of water, and bottle of red food colour, bowl of sand
					EFFECTS OF KIDNEY FAILURE PRACTICE QUESTIONS 1-3 REFLECTION ACTIVITY	1 1 1	demontrate and discuss the effects of kidney failure	2 paper cups with a hole at the bottom and 2 cotton balls, 2 glass of water, and bottle of red food colour, bowl of sand and small spoon, 2 small cups
MID TERM ASSESSMENT								
11	XSEED	OCTOBER	11	FOOD OUR BASIC NEED	CARBOHYDRATES, FATS AND PROTEINS PRACTICE QUESTIONS 1-3 VITAMINS, MINERALS, DIETARY FIBER AND WATER PRACTICE QUESTIONS 1-3 BALANCED DIET PRACTICE QUESTIONS 1-3	1 1 1 1 1	sort food samples based on the nutrients they contain sort food items into different groups and discuss their functions create a balanced diet using different food items	Samples of cooked rice, wheat flour, cooked pulses, boiled egg, nuts , and cheese, pair of scissors and double sided tape, small zip loc pouches pictures oof food items rich in vitamins, minerals and fiber, scissors and double sided tape pictures of food items , scissors and glue
					FOOD FOR DIFFERENT AGES PRACTICE QUESTIONS 1-3 REFLECTION ACTIVITY	1 1 1	observe photos and analyze how diet varies with age	picture of an old amn and a child, chart showing suggestive diets with labels for ageing adults and growing children
12	XSEED	OCTOBER	12	AIR AND POLLUTION	COMPONENTS OF AIR PRACTICE QUESTIONS 1-3 PROPERTIES OF AIR PRACTICE QUESTIONS 1-3 USES OF AIR PRACTICE QUESTIONS 1-3	1 1 1 1 1	make a receipte of air predict the properties of air by looking at experiments analyze and infer that air helps things burn	10 coloured circles to represent each gas with the words nitrogen , oxygen and other gases written on them, chart showing the components of air large and deep container half filled with water , small glass and a paper ball, 1 deflated balloon, 2 equally inflated balloons tied at the end of a stick and 1 board oin small candle and a matchbox, small transparent glass, chart showing how plants and humans depends on air, paper aeroplane
					AIR POLLUTION PRACTICE QUESTIONS 1-3 REFLECTION ACTIVITY	1 1 1	analyze the causes and effects of air pollution	chart showing the causes of ai pollution and their effects on humans, burning candle, steel bowl gresed with oil or butter and pair of tongs, few paper towels or paper roll
13	XSEED	NOVEMBER	13	SEPARATION OF IMPURITIES	SOLUTION PRACTICE QUESTIONS 1-3 SEPARATING INSOLUBLE SUBSTANCES PRACTICE QUESTIONS 1-3 SEPARATING SOLUBLE SUBSTANCES PRACTICE QUESTIONS 1-3	1 1 1 1 1	mix things in water and compare the mixtures separate impurities using different separation methods look at the demonstrations and explain the method	3 beakers labelled 123 with aspoon, one tea spoon each of salt, sand and sugar, crushed dry leaves, 100 ml of milk in glass, 300ml of water in bottle 3 bekears labelled 123, 200ml of water in water, 2 spoons, crusheed dry leaves, sand, filter paper funnel spirit lamp, tripod stand, wire mesh, a beaker, 100ml water in a beaker, 50x salt
					REMOVING IMPURITIES FROM WATER PRACTICE QUESTIONS 1-3 REFLECTION ACTIVITY	1 1 1	rrange cards in order to show the steps of water purification	picture card showing filtration and decantation, clean water stoge and sedimentation, chlorination and collecting water from rivers
14	XSEED	NOVEMBER	14	LIGHT AND SHADOW	LUMINOUS AND NON LUMINOUS OBJECTS PRACTICE QUESTIONS 1-3 LIGHT HELPS US TO SEE PRACTICE QUESTIONS 1-3 SHAPES OF SHADOWS PRACTICE QUESTIONS 1-3 CHANGING SIZES OF SHADOWS PRACTICE QUESTIONS 1-3 REFLECTION ACTIVITY	1 1 1 1 1 1 1 1	sort objects into two groups - luminous and non luminous look at the chart and discuss how light helps us to see observe a set up and guess the shape of the shadow form small and big shadows of a toy car	candle, torch, matchbox, mirror chart showing how light help us to see a flower, picture card showing a brightna nd a dim light source in a same place empty pencil box torch, 1 meter ruler toy car, white screen
15	XSEED	DECEMBER	16	TYPES OF FORCES	FORCES AND TYPES PRACTICE QUESTIONS 1-3 CONTACT AND NON CONTACT FORCES PRACTICE QUESTIONS 1-3 GRAVITATIONAL FORCE PRACTICE QUESTIONS 1-3 MAGNETIC FORCE PRACTICE QUESTIONS 1-3 REFLECTION ACTIVITY	1 1 1 1 1 1 1 1	observe the actions to know about the different types of forces perform the actions and fill in the tables note the actions and discuss the effects of gravitaional force identify objects that are pulled by magnets	spring , slip of paper, scissors, ball, wire, magnet, 6 steel pins few coins, magnet, spring, flat piece of rough wood, small stones ball, feather, picture showing astronaut eating food in space 2 bar magnets, steel spoon, iron nail, eraser, pencil
16	XSEED	DECEMBER	17	FRICTIONAL FORCE	FRICTION AT REST AND IN MOTION PRACTICE QUESTIONS 1-3 MORE OR LESS FRICTION PRACTICE QUESTIONS 1-3 FRICTION : HARMFUL AND USEFUL PRACTICE QUESTIONS 1-3 INCREASING AND DECREASING FRICTION PRACTICE QUESTIONS 1-3 REFLECTION ACTIVITY	1 1 1 1 1 1 1 1	observe the effects of friction on different surfaces note the frictional force on different surfaces compare old and new shoes and tires run the toy car slow or fast by increasing or reducing friction	wooden block with a hook or a rubber band, string tied in a middle, ball, spring balance, ball, rough and smooth surface pencil box, 1 kg weight matchbox, new shoes, picture of old tire and new tire, picture cards showing bags with and without wheels, 12x12 tray with small walls on 4 sides, towel and paper napkin, toy car that runs on keys, sand paper, oil, and talcum powder

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