## INFANT JESUS CONVENT SCHOOL ANNUAL PLAN (2023-24)

SCIENCE CLASS: VI

MONTH/NO OF DAYS	TOPIC: SUB TOPIC	OBJECTIVES	AIDS/ACTIVITIES	MULTIPLE INTELLIGE NCE SKILLS	LEARNING OUTCOME
APRIL No of Days: 17	CH-1 FOOD: WHERE DOES IT COME FROM?  • Food Variety • Food Materials and Sources • Plant Parts And Animal Products As food • Plant parts as food • What do Animals Eat?  CH-2: COMPONENTS OF FOOD  • Carbohydrate • Protein	Students will be able to explain  The importance of food Ingredients of different food Variety of food Sources of food Edible part of food Classify animals on the basis of their food habit Different nutrients (carbohydr ate protein fat vitamins minerals fibres and water)	<ul> <li>KNOWLEDGE: <ul> <li>To identify the ingredients used to make a dish.</li> <li>To classify the food items as plant and animal products</li> <li>To evaluate the importance of different nutrients in food</li> </ul> </li> <li>SKILLS: <ul> <li>Reasoning Skills</li> <li>Writing Skills</li> <li>Critical Thinking</li> </ul> </li> <li>APPLICATION: <ul> <li>Tabulate the food items eaten in your lunch and write down the ingredients used to make them</li> <li>Prepare a diet chart to provide balance diet to a twelve year old child.</li> </ul> </li> </ul>	<ul> <li>Logical</li> <li>Interpers onal</li> <li>Intrapers onal</li> </ul>	Students will be able to:  Observe the variety in our food Find the sources of food Explain the process of sprouting Classify the animals as herbivores, omnivores and carnivores identify the components found in the food items understand the importance of different

	<ul> <li>Fat</li> <li>Vitamin and minerals</li> <li>Roughage</li> <li>Water</li> <li>Test for various components</li> </ul>	• Test of nutrients (starch protein and fat)	<ul> <li>Sprouting of moong dal and prepare a report on its nutritional value.</li> <li>UNDERSTANDING:</li> <li>To evaluate the food items which are obtained from the plants and animals</li> <li>To explain the process of sprouting.</li> <li>To understand about diet and nutrition.</li> </ul>		nutrients in our food  • Understand steps involved to test the different nutrients
MAY No of Days: 12	CH-2: COMPONENTS OF FOOD  Balanced diet  Deficiency diseases  CH-4: SORTING MATERIALS INTO GROUPS  Basis of grouping Properties of material  Need of grouping	Students will be able to:  • The meaning of balanced diet  • Different deficiency diseases.  • Understand the meaning of matter, object, material and classification  • explain basis of grouping of materials  • Differentiate properties of material (appearance,	<ul> <li>KNOWLEDGE:</li> <li>Knowledge about deficiency diseases and requirement for various nutrients for a healthy body.</li> <li>Identify the given materials and group them according to their properties</li> <li>SKILLS:</li> <li>Reasoning Skills</li> <li>Observational skills</li> <li>Critical Thinking</li> <li>APPLICATION:</li> <li>To test the food usually eaten by cattle or a pet to find out which nutrients</li> </ul>	<ul> <li>Creativity (while doing the activities)</li> <li>Logical</li> <li>Scientific skills</li> </ul>	Students will be able to:  • Explain the meaning of balanced diet and its important in our daily life  • To evaluate the material and grouped them according to their properties.  • To differentiate between transparent, opaque and translucent.

	hardness/softn	are present in animal	To elaborate
	ess, solubility,	food and compare results	the need of
	flotation and	obtained from the whole	classification.
	transparency) • explain the	class to conclude about	
		balanced diet	
	Importance of	requirements for	
	grouping	different animals.	
		Collect samples of	
		vinegar, lemon juice,	
		mustard oil or coconut	
		oil, kerosene or any other	
		liquid. Take a glass	
		tumbler. Fill it up to half	
		with water. Add a few	
		spoonful of one liquid to	
		this and stir it well. Let it	
		stand for five minutes.	
		Observe whether the	
		liquid mixes with water.	
		Repeat the same with	
		other liquids, as many	
		different liquids as are	
		available to you. Write	
		your observations in	
		Tabular form	
		UNDERSTANDING:	
		To evaluate the harmful	
		effects of excess intake of	
		fats for the body.	
		• To elaborate	
		the need of classification	

	CONDUCTION CH-5: SEPARATION OF SUBSTANCES  • Hand picking • Threshing • Winnowing		Appearance, hardness/softness and transparency.  REVISION: PT-1  SMENT (Third Week Of May)  KNOWLEDGE:  • To prepare saturated solution of common salt. • Enclose a leafy branch of the plant		Students will be able to: Explore materials on the basis of physical
JULY No of Days: 23	<ul> <li>Sieving</li> <li>Sedimentation</li> <li>Decantation</li> <li>Filtration</li> <li>Evaporation</li> <li>Condensation</li> </ul>	pure substance • Explain need of separation • Apply different methods of separation (Hand Picking, Threshing, Winnowing, Sieving, Sedimentation, Decantation, Filtration, Evaporation, Condensation, Churning, Sublimation, Magnetic Separation) • Use of more than one method for separation	in a polythene bag and tie up its mouth. Tie up the mouth of the empty polythene bag and keep it also in the sun. Observe the result.  SKILLS:  Observational Skills Analytical Skills Critical Thinking  APPLICATION: To hand pick different items from a given mixture by using various methods of separation. Find a plant in your house or in your	<ul> <li>Creativity (while doing the activities)</li> <li>Logical</li> <li>Scientific skills</li> <li>Exploring.</li> </ul>	properties (soft, hard, transparency, appearance, soluble)  • Identify materials by doing activities (dissolving or immersing in water)  • Differentiate materials on the basis of physical properties.  • Apply learning of scientific

		T	T	
	Identify the	neighborhood, which has a		aptitude in
	herbs, shrubs	long but a weak stem?		daily life.
	and trees	Write its name. In which		observe the
	• Identify the	category would you		plant and
	different parts of	classify it?		•classify them
	plant and their			in in different
	_	•Leaf printing and to label		categories
	functions	the parts of leaf.		(creepers,
CH7: GETTING TO	• Types of	351 . 11 1 1 . 1		climbers,
KNOW PLANTS	venation	•Make a table based on the		herbs, shrubs
	<ul> <li>Identify the</li> </ul>	observations of the whole		and trees)
• Types of plants	parts of flower	class. Add observations to		• Identify the
• Parts of plants: Root,		this table, from a field trip to a locality where there		different parts
Stem, Leaves & Flower		are plants with flowers		of a plant and
• Parts of a flower		are plants with howers		observe the
				pattern of the
		UNDERSTANDING:		leaf venetion.
		• Activity to show the		<ul> <li>Analyze the</li> </ul>
		difference between		type of root by
		evaporation and		just looking the
		condensation.		venation
		BECOME A LEAF		• They
		EXPERT		understand the
		Do this activity with a		modification
		number of leaves over a		in the root
		period of a few weeks.		stem and leaves
		For every leaf that you		• They observe
		wish to study, pluck it		the different
		and wrap it in a wet		parts of flowers and analyze the
		cloth and take it home.		different
		Now, put your leaf in a		pattern of their
		newspaper and place a		leaves.
		heavy book on it. You		icaves.
		can also put it under		
		your mattress or a trunk! Take out the leaf		
		after a week. Paste it on		
		a paper and write a		
		a paper and write a		

AUGUST No of Days: 23	CH-8: BODY MOVEMENT  • Movement  • Types of Joints ( Hinge, Ball & Socket, Pivotal, Fixed and Gliding)  • Role of joints  • Muscles	Students will be able to: List the various joints of our body  • Differentiate between various kinds of joints  • Explain the function of rib cage and skeleton  • Describe the movement s in other animals	poem or story about it. With your leaf collection pasted in a book (a Herbarium), you can become quite an expert  KNOWLEDGE: To study: The Skeletal system and the shape of our body  SKILLS: Reasoning Skills Aesthetic skills Critical Thinking Computational skills.  APPLICATION: Role Play - Bones and its functions. Students will be assigned a bone/bones. They will come and present its function in the entire class. Skull bone Privot joint Rib cage Spinal Cord Femur UNDERSTANDING:  Study on skeleton Students can be asked to study the skeleton in the lab. Students must observe the number of bones, type of joints and the size and shape	• Logical-mathema tical • Interpers onal Intrapers onal	Students will be able to: explain the movement • know and understand the function of bones in our body • observe the different joints present in our body and their location • analyze role of muscles in the movement process • develop the ability to differentiate the body movements in in different animals
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			of the bones. They can try to count the number of bones in hands, legs, ribs and vertebral column. After the counting, the groups can brain storm on why humans have this particular kind of skeleton. What would be the reasons why all the bones are not of the same size and shape? What is its significance in our daily activities		
SEPTEMBER No of Days: 05		R	EVISION: TERM-1		
	CONDUCTION OF  CH - 9: LIVING	1	ENT (Second Week of Septe	ember)	Students will
OCTOBER No of Days: 22	ORGANISMS AND THEIR SURROUNDINGS  Organisms and the surroundings where they live Habitat and adaptation A journey through different Habitats Characteristics of the living beings CH 10. MOTION AND MEASUREMENT OF DISTANCES  1. What is	Students will be able to:  1. define key words of the lesson. 2. Recall living and non Living things. 3. define response to Stimulus. 4. identify the different processes in living Things. 5. describe cellular	KNOWLEDGE: To know about plants and animals found in different surroundings like forests, desert, sea, SKILLS: Reasoning Skills Aesthetic skills Critical Thinking  APPLICATION: Germination of seed. Demonstration of different types of motions.  UNDERSTANDING:	<ul> <li>Logical- mathema tical</li> <li>Interpers onal intelligen ce</li> <li>Intrapers onal intelligen ce</li> </ul>	be able to:  • Relate adaptation of plants and animals with their Habitats. •classify the component of habitat as biotic and Abiotic. • classify the organisms on the basis of their Observable features

	Measurement? 2. Why Measurement? 3. How measurements are taken in various Aspects. 4. Conventional and standard units for Measurements. 5. Tools used in measurements 6. Drastic changes in transportation System. 6. Motion and its types.	structure of living things. 6. explain the characteristic features of living organisms. 7. Measure different things. 8. about standard units 9. Explain Different types of motion.	<ul> <li>Bifurcate the Surrounding objects into living and non-living things.</li> <li>Recall the different animals of water and land.eg. Animals living in forest, desert and ocean.</li> <li>Make a chart of measurement with hand span and meter scale to know the difference.</li> </ul>		• Illustrate an example to show the act of measurement and motion in day to day life. •Practice to use measurements with units in all aspects of life relevantly when required.
NOVEMBER No of Days: 22	CH 11: LIGHT ,SHADOWS AND REFLECTION  1. Light as an energy. 2. Sources of light. 3. Vision through eye 4. Rectilinear propagation of light. 5. Pin hole camera 6. Reflection, refraction of light 7. Formation of shadows and images.	Students will be able to: 1Define key word of the lesson. 2. Explain light as a form of energy and sun as its major source. 3. Describe how light makes vision possible with our sense organ eye. 4. Describe how light	<ul> <li>KNOWLEDGE: <ul> <li>Demonstration of regular and irregular reflection</li> </ul> </li> <li>SKILLS: <ul> <li>Reasoning Skills</li> <li>Aesthetic skills</li> <li>Critical Thinking</li> </ul> </li> <li>APPLICATION: <ul> <li>Making of a pin</li> </ul> </li> <li>hole camera.</li> <li>To study light travels in a straight.</li> </ul> <li>UNDERSTANDING:</li>	<ul> <li>Logical- mathema tical</li> <li>Interpers onal intelligen ce Intrapers onal intelligen ce</li> </ul>	Students will be able to:  Illustrate an example to show that light is a form of energy.  Identify the other sources.  Compare the properties of transparent, translucent and  Opaque materials

		travels in straight line. 5. Explain the construction of pin hole camera.	Demonstration of formation of shadows and images.		with examples in day to day life.  • Learn that vision through eye is possible only in the presence of light by reflection.
	CONDUCTION O	E DT O ASSESSME	REVISION: PT-2	how)	
			NT (Fourth Week Of Novem	berj	Students will
DECEMBER No of Days: 12	CH 12. ELECTRICITY AND CIRCUITS  1. Electricity as a form of energy. 2. Sources of electricity 3. Meaning and making of circuit. 4. Components of a circuit 5. Construction of electric bulb. 6. Conductors and insulators 7. Use of symbols in electricity	Students will be able to:  Define and differentiate between circumference and area of circle.  Apply knowledge to solve day to day life problems.	<ul> <li>KNOWLEDGE: <ul> <li>To study the various electrical components</li> </ul> </li> <li>To draw a circuit diagram using symbols of electrical components.</li> </ul> <li>SKILLS: <ul> <li>Reasoning Skills</li> <li>Writing Skills</li> <li>Critical Thinking</li> <li>Observational Skills</li> </ul> </li> <li>APPLICATION: <ul> <li>Making of a switch.</li> </ul> </li>	<ul> <li>Logical- mathema tical</li> <li>Interpers onal</li> <li>Intrapers onal</li> <li>Spatial</li> </ul>	be able to:  Illustrate an example to show that electricity is a form of energy.  Differentiate the two different ways of obtaining electricity.  Compare conductors and insulators with examples and

			<ul> <li>Demonstration of parts in a bulb and torch light.</li> <li>UNDERSTANDING:         <ul> <li>Identification and classification of materials into insulators and conductors</li> </ul> </li> </ul>		•Makes a circuit to test for insulators and conductors.
JANUARY No of Days: 18	CH-13 FUN WITH MAGNETS  1. History of magnets 2. Terminology in magnetism 3. Magnetic and non Magnetic substances. 4. Artificial and natural magnets. 5. Properties of magnets. 6. Magnetic field. 7. Uses of magnets. substances. 4. Artificial and natural magnets. 5. Properties of magnets. 5. Properties of magnets. 6. Magnetic field. 7. Uses of magnets.	The students will be able to 1. Define key words of the lesson 2. List the uses of magnets. 3. Describe the history of magnetism story of Shepherd). 4. Explain the difference between a) Magnetic and non-magnetic substances b) Artificial and natural magnets. 5. Demonstrate the properties of magnets with figure and activities. 6. Explain magnetic	KNOWLEDGE: Study of properties of magnets practically  SKILLS: Reasoning Skills Aesthetic skills Critical Thinking Computational skills. APPLICATION:  Practice to use magnetic compass while going to new places for finding directions.  UNDERSTANDING: Use gadgets with magnets, taking necessary precautions.	• Logical • Interpers onal intelligen ce Intrapers onal intelligen ce	Students will be able to:  1.Learn to read and write the meanings of the key words. 2. Restate the story behind magnetism. 3. Differentiate (a) Natural and artificial magnets. (b) Magnetic and non magnetic substances. 4. Identify the properties of magnets and draw figures. 5. Recall the uses of magnets in various devices