

INFANT JESUS CONVENT SCHOOL
ANNUAL PLAN
SCIENCE
CLASS: IV

MONTH/NO OF DAYS	TOPIC: SUB TOPIC	OBJECTIVES	AIDS/ACTIVITIES	MULTIPLE INTELLIGENCE SKILLS	LEARNING OUTCOME
<p style="text-align: center;">APRIL No of Days: 18</p>	<p>PLANT LIFE:</p> <ul style="list-style-type: none"> • Food making • Leaf structure • How plants use food • Interdependence between plants and animals • Grasses as the main source of food <p>THE RIGHT CLOTHES TO WEAR:</p> <ul style="list-style-type: none"> • Need to wear clothes • Types of clothes • Materials to make clothes • Care of clothes 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Understand that why plants • Learn the structure of a leaf • Memorise the process of photosynthesis takes place • Compare the current world with a world without plants and understand how plants and animals depend on each other • Value the importance on wearing clothes • Identify the different types of clothes and materials • Take proper care 	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> • Understand how plants make food for the all organisms • List the different types of clothes according to seasons <p>SKILLS:</p> <ul style="list-style-type: none"> • Reasoning Skills • Observation Skills • Critical Thinking <p>APPLICATION:</p> <ul style="list-style-type: none"> • Model reading of the lesson • Participate in awareness programs to grow more trees • Apply the rules to take care of clothes 	<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Naturalist 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Comprehend the process of photosynthesis • Categorize plants as green plants and non green plants • Identify that grasses are main source of food for all • Understand the different cloth materials and its types • Apply scientific knowledge in daily life

		of clothes	<p>UNDERSTANDING:</p> <ul style="list-style-type: none"> • Recognize the interdependence of plants and animals • List the reasons to wear clothes 		
<p>MAY No of Days: 14</p>	<p>REPRODUCTION IN ANIMALS</p> <ul style="list-style-type: none"> • Reproduction • Mammals • Egg laying animals • Life cycle of animals • Care of animals 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Value the importance of reproduction in organisms • Identify an animals as egg laying animal or animal that gives birth to young ones • Learn about life cycles of butterfly, grasshopper and frog • Develop the habit of taking care of animals 	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> • List the type of animal based on they lay egg or not • Understand the process of metamorphosis in insects <p>SKILLS:</p> <ul style="list-style-type: none"> • Verbal Skills • Writing Skills • Critical Thinking <p>APPLICATION:</p> <ul style="list-style-type: none"> • Model reading of the lesson • Adopt steps to care for animals <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> • Identify different mammals and egg laying animals • Understand the different stages in the life cycle of some organisms 	<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Naturalist 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Understand the term reproduction • Recall the importance loving nature and animals • Realize that some young ones do not resemble the parents and undergo various changes in a process called life cycle

REVISION: PT – 1

CONDUCTION OF PT-1 ASSESSMENT (Third Week of May)

<p align="center">JULY No. of Days: 27</p>	<p>SAFETY FIRST</p> <ul style="list-style-type: none"> • How accidents happen? • Safety rules to be followed to avoid accidents at home, school and on roads • What is First Aid? • Points to remember while giving First Aid • How to administer First Aid in case of fainting, nose bleed and insect bite <p>WEATHER AND WATER</p> <ul style="list-style-type: none"> • Formation of Land breeze and Sea breeze • Evaporation and condensation • Different forms of water • Purification of water 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Follow safety rules • Capable to do First aid • Understand different methods of first aid during different situations • Understand how difference between heating and cooling of land and water influences weather and leads to Land and Sea breezes. • Define and understand the terms evaporation and condensation • Recognize the need to have safe water • Learn the different purification water techniques 	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> • Understand the do's and don'ts while walking on road • Recall the reasons why accidents occur • Understand evaporation and condensation process <p>SKILLS:</p> <ul style="list-style-type: none"> • Verbal Skills • Listening skills • Critical Thinking <p>APPLICATION:</p> <ul style="list-style-type: none"> • Model reading of the lesson. • Role play on safety rules • Practice water purification techniques to have safe drinking water <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> • Value the importance to carry a first aid kit 	<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Existential • Naturalist 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Recall the ways to avoid accidents • Explain the first aid to be followed in different scenarios • Recognise the importance of weather • Understand the properties of hot and cold air • Explain the need to drink purified water • Practice the techniques to purify water • Applying scientific knowledge in daily life
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			<ul style="list-style-type: none"> • Understand why it is important to give first aid • Practice ways to avoid accidents • Understand the formation of land and sea breezes 		
<p>AUGUST</p> <p>No. of Days: 23</p>	<p>STARS AND PLANETS</p> <ul style="list-style-type: none"> • Night sky • Stars and Planets • Structure of Earth • Seasons and their effects 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Identify the brightly lit objects in the night sky as stars • Know what are plants • Learn that different planets have different number of moons • Learn the different layers of earth • Learn about rotation and revolution • Understand how seasons occur 	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> • Name the different planets in our solar system • Understand about natural satellites <p>SKILLS:</p> <ul style="list-style-type: none"> • Reasoning Skills • Writing Skills • Critical Thinking <p>APPLICATION:</p> <ul style="list-style-type: none"> • Model reading of the lesson • Differentiate rotation and revolution <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> • Recall the structure of earth • Understand about volcanoes 	<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Naturalist 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Recognize the different planets and their natural satellites • Understand the way seasons are formed • List the different layers of Earth
<p>SEPTEMBER</p> <p>No. of Days: 5</p>	REVISION: TERM – 1				
CONDUCTION OF TERM -1 ASSESSMENT (Second Week of September)					

<p>OCTOBER No of Days: 22</p>	<p>FOOD AND DIGESTION</p> <ul style="list-style-type: none"> • Food groups • Balanced Diet • Digestion • Cooking Food • Preservation and protection of food <p>TEETH AND MICROBES</p> <ul style="list-style-type: none"> • Sets of teeth • structure of tooth • Types of teeth • Care of the teeth • Microbes 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Value the importance of food • Develop the habit of taking balanced diet • Understand the process of digestion • Learn the ways of preserving food. • Know about different types of teeth. • Analyze the structure of tooth • Identify the types of microbes. • Take care of the teeth. 	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> • List the various food items eaten • List the method of food preservation. • Understand the importance of teeth. • List the different types of microbes. <p>SKILLS:</p> <ul style="list-style-type: none"> • Reasoning Skills • Critical Thinking • Observation skills <p>APPLICATION:</p> <ul style="list-style-type: none"> • Model reading of chapter • Make a chart on balanced diet • Analyze methods of cooking food • Brushing and healthy habits to keep teeth healthy <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> • Identify the food sources with their nutrients • Know the process of digestion • List the methods of food preservation 	<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Naturalist 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Recall the different kinds of food • Explain the process of digestion • Identify the different methods of cooking food • Recall the importance of balanced diet • Recognize the parts of a teeth • Understand the ways to keep teeth healthy • List the different types of microbes
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			<ul style="list-style-type: none"> • Recall the structure of tooth. • Understand the types of microbes 		
<p>NOVEMBER No of Days: 23</p>	<p>ADAPTATION IN PLANTS</p> <ul style="list-style-type: none"> • Aquatic Plants • Underwater plants • Terrestrial Plants • Some unusual plants 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Understand the classification of plants • Learn the importance of plants of the grass family • Identify the insectivorous plants • Compare the floating plants and fixed plants. 	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> • List the factors that affect the habitat of plants • Understand why grasses are useful to us <p>SKILLS:</p> <ul style="list-style-type: none"> • Observation Skills • Writing Skills • Critical Thinking <p>APPLICATION:</p> <ul style="list-style-type: none"> • Model reading of the lesson • Identify the terrestrial plants • Paste the pictures of plants grow in cold and hot regions. <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> • Identify the aquatic and terrestrial plants • List the various uses of grasses 	<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Kinesthetic 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Identify the different types of aquatic plants • Categorize the plants in plains, hot and cold region. • Identify the unusual plants
	REVISION: TERM – 2				
CONDUCTION OF PT-2 ASSESSMENT (Fourth Week Of November)					

<p style="text-align: center;">DECEMBER No of Days: 11</p>	<p>ADAPTATION IN ANIMALS</p> <ul style="list-style-type: none"> • Adaptation to environment • Adaption for food • Adaptation for protection • Migration 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Categorize the animals on feeding habits • Define migration and the need for migration in animals. • Classify the animals on the basis of environment. Understand the adaptation for protection 	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> • Understand the feeding habits of animals • List the animals on the basis of their environment <p>SKILLS:</p> <ul style="list-style-type: none"> • Reasoning skills • Analyze skills • Critical thinking <p>APPLICATION:</p> <ul style="list-style-type: none"> • Model reading of the lesson • Differentiate the types of animals based on feeding habits <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> • Recall the types of animals on the basis of their environment • Identify the animals according to their food habits • Memorize the adoption for protection 	<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Naturalist 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Recognize the different groups of animals on the basis of their environment. • Identify what animals eat • Recall the importance of migration • Identify the types of animals based on feeding habits
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<p style="text-align: center;">JANUARY No of Days: 21</p>	<p>STATES OF MATTER</p> <ul style="list-style-type: none"> • What is matter- solids, liquids and gasses • Gases dissolve in liquids • Solids dissolve in liquids • Physical and chemical changes 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Know about matter and its 3 states • Give examples of solids, liquids and gases • Compare properties of 3 states of matter • Distinguish between physical and chemical changes 	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> • Tell what is matter • List the 3 states of matter <p>SKILLS:</p> <ul style="list-style-type: none"> • Reasoning skills • Writing skills • Critical thinking <p>APPLICATION:</p> <ul style="list-style-type: none"> • Model reading of the lesson • Analyze the properties of solid, liquid and gas with concept map • Experiment on physical and chemical change <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> • Review the properties of solid, liquid and gas • Recognize the type of matter of substances around us • Classify the changes as physical or chemical change 	<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Visual • Spatial 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Define matter • Classify the states of matter • Understand the properties of 3 states of matter
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<p>FEBRUARY No of Days: 22</p>	<p>FORCE, WORK AND ENERGY</p> <ul style="list-style-type: none"> • Types of forces • What is work? • What is machine? • What is energy? • Forms of energy 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Know about force, work and energy • Express different forms of energy • List the ways in which heat energy is useful to us. 	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> • Name some simple machines used in daily life • List the different forms of energy <p>SKILLS:</p> <ul style="list-style-type: none"> • Reasoning Skills • Writing Skills • Critical Thinking <p>APPLICATION:</p> <ul style="list-style-type: none"> • Model reading of the lesson • Sketch some simple machines <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> • Recall force, work and energy • Classify the different forms of energy 	<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Kinesthetic • Spatial 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Define work, force and energy • Identify the forms of energy • Recognize the various machines used in daily life
	REVISION: TERM-2				
MARCH	CONDUCTION OF TERM-2 ASSESSMENT				