

KIDS WORLD SCHOOL
SESSION - 2024 -25
ANNUAL CURRICULUM PLANNER
SUBJECT - SCIENCE
CLASS – VI

MONTH	NAME OF THE LESSON	METHODOLOY	LEARNING OBJECTIVES		LEARNING OUTCOMES	MODE OF ASSESSMENT + ACTIVITY
			KNOWLEDGE / CONTENT BASED	APPLICATION BASED		
JULY Date- 01/07/2024 To 22/07/2024	Ch.1 Components of Food	*Introduction *Explanation *Demonstration *Discussion *Application * Video	To enable the students: <ul style="list-style-type: none"> • Identify various nutritional components of food • Realize the role of each micronutrient in the Diet found in food. • Role of nutrients and balanced diet. • Know about the energy giving foods, body building foods and protective foods • Cause of deficiency diseases. 	Students will: <ul style="list-style-type: none"> • Understand the micro nutrients of food • Observe the presence of components with iodine solution • Observe the protein react with copper sulphate to give cupricion • Know the importance of nutrients by keeping in daily diet • Students observe the instant action of fruit juices in body which has carbohydrates.. 	Understand: Components of food Describe: role of each nutrients, Identifies: the nutrients present in the food items by observation Application: Use of each type of food items in daily diet.	ASSESSMENT FOR LEARNING (Interdisciplinary Activity) (Science and Maths) Make a menu card for restaurant and mention all ingredients with its nutritional value. ASSESSMENT AS LEARNING (Subject Enrichment Activity) Activity : To test the presence of starch in a food item, cooked and soft food sample must be taken. To it little amount of water must be added and then 1-2 drops of iodine solution is added. Blackish-blue coloration indicates the presence of starch. Items to be tested are cooked rice, dal, chapatti raw and boiled potato, banana, milk, etc.

<p>JULY/ AUGUST Date- 24/07/2024 To 05/08/2024</p>	<p>Ch.2 Sorting Material into Groups</p>	<p>*Introduction *Explanation *Demonstration *Discussion *Application *Video</p>	<p>1) Students will know about the different types of objects. 2) Know about the objects and its constituents 3)Understand the property of materials such as appearance and Hardness. 4) Students will get theknowledge of solubility and insolubility of the material. 5) Observe the texture of material.</p>	<p>1) Observe the materials made up of wood, metal, or plastics. 2) Systematic classification will be done. 3) By cutting metal into pieces its lustrousness Can be checked 4) Solubility of sugar, salt and chalk powder will be checked . 5) Clear Visibility through oil patches can be classified as transparency of the object.</p>	<p>Understand, Identifies and Differentiate: Materials based on observable properties, such as appearance, texture etc. Applies learning of scientific concept. Classifies: materials on observable properties appearance/luster, roughness, hardness, sate, transparency, solubility, flotation, attraction, conduction, heat and electricity.</p>	<p>ASSESSMENT OF LEARNING Objective type questions, Subjective type questions Applying, Analyzing, Evaluating Creative, value-based questions</p> <p>ASSESSMENT AS LEARNING Activity: Lab activity- solubility test will be applied by the students under teacher's supervision with the following materials- salt, sugar, sand, and saw dust and chalk powder In water.</p>
<p>AUGUST Date 08/08/2024 To 20/08/2024</p>	<p>Ch.3 Separation of Substances</p>	<p>*Introduction *Explanation *Demonstration *Discussion *Application *Video</p>	<p>Students will be able to:- 1) Discover the purpose behind separating mixtures 2) Explain the method ofseparating sold from solid 3)Notice the process of sieving 3)Deduce the meaning ofsaturation of solution 4) Discuss the process of sedimentation, decantation and filtration</p>	<p>Students will learn: 1) To remove the impurities from substances in everyday life 2) Observe the process of sieving from everyday life 3) Apply their knowledge on mixture of solid and liquids 4) Experiment of making water filter</p>	<p>Understand: Separation of substance. Describe: need to separate components of mixture. Identifies and classifies mixtures Applies: learning of methods of separation. Draw: labeled diagram such as decantation, filtration, evaporation andcondensation. Define: solute, solvent and solution</p>	<p>ASSESSMENT FOR LEARNING (Art Integrated Activity) To make water Filter using waste material.</p> <p>ASSESSMENT AS LEARNING Activity -Students are provided with a mixtureof salt, sand, oil and water. Write the steps involved for the separation of salt, sand and oil from the mixtureby giving an activity along with the diagram. This will apply various separation techniques bythe students.</p>

AUGUST/ SEPTEMBER Date- 21/08/2024 To 09/09/2024	Ch. 4- Getting to know plants	*Introduction *Explanation *Demonstration *Discussion *Application *Video	Students will enable to : 1) Explore different types of plants 2) Recognise categories of plants 3) Explore the parallel and reticulate venation of leaf 4) Observing the parts of flowers	Student will learn: 1) To classify the plants as herbs, shrub or trees by activity. 2) Climbers need support to stand . 3)To observe plant needs water for its survival. It absorbs coloured water. As a result, we observe coloured venation in leaf. 4) Through transversal dissection	Classifies: plants herbs, shrubs and trees. Differentiate: climbers and creepers, roots, venation Describes: function of plant parts, structure of flower and its functions Draw diagrams Identifies different part of leaf. Understand: Different parts of flowers.	ASSESSMENT OF LEARNING Objective type questions, Subjective type questions, Applying, Analyzing, Evaluating Creative, value-based questions. (Multiple Assessment) Activity: Paste two different types of roots and label it.
SEPTEMBER Date- 10/09/2024 To 27/09/2024	Ch.5-Body Movement	*Introduction *Explanation *Demonstration *Discussion *Application *Visualization	Students will be able to: 1)Recognise the different types of movement in human 2)To help them understand the types of joints. 3)To relate the concept of body movement in different categories of Animals.	Students will learn: 1)To create a visual representation of different types of joints present in human body Application: Fish moves in streamline way to counter lesser resistance from the water.	Understand body movement Identifies different bones, type of joints, types of movement. Draws labeled schematic diagrams of different types of joints.	ASSESSMENT OF LEARNING Objective type questions, Subjective type questions, Applying, Analyzing, Evaluating Creative, value-based questions.
October	RREVISION + TERM I EXAMINATION					
NOVEMBER Date- 11/11/2024 To 25/11/2024	Ch.6- The living organisms- Characteristics and habitats	*Introduction *Explanation *Demonstration *Discussion *Application *Visualization	Students will be able to:- 1)Identify different types of organisms 2)Explore habitats and adaptation of organisms 3) Explore terrestrial and aquatic habitat organisms and their adaptation 4)Components of a habitat and adaptations.	Students will learn:- 1)Animals can be classified as per their habitat. 2)Observe that abiotic factors like sun, air, temperature, and humidity play an important role in the growth of an organisms. 3)Biotic and abiotic both factors are responsible for the adaptation of an organisms.	<u>Understand and lists the different types of habitats</u> Identifies the different animals found in these habitats Differentiate between biotic and abiotic components of habitats, living and non- living things, adaptation and acclimatization. Correlates the specific characteristics of plant and animals	ASSESSMENT OF LEARNING Objective type questions, Subjective type questions, Applying, Analyzing, Evaluating Creative, value-based questions ASSESSMENT AS LEARNING Students will draw a flow chart to explain roles and interactions of carnivores, herbivores and decomposers within a habitat.

<p>DECEMBER Date- 26/11/2024 To 07/12/2024</p>	<p>Ch. 7- Motion and Measurement of Distances</p>	<p>*Introduction *Explanation *Demonstration *Discussion *Application *Visualization</p>	<p>Students enables to understand:- 1) Need of transportation. Need and importance of measurement. 3) Some olden and newer method of measurement 4) Need of standard units of measurements 2) Explore motion and its types</p>	<p>Learners will learn:- 1) Means of transport makeswork easier and saves time and efforts 2)To observe that we cannot measure the length of a curved line directly by using a meter scale. We can use a thread to measure the length of a curved line and it should be uniform Angul, handspan,cubit were replaced by mm, cm,and metre. 4) Newer methods are standard method which has uniformity worldwide.</p>	<p>Understand the need of measurement in different situations.Describes: nonstandard and standard unit, SI units, and measurement using body part, ruler etc., and types of motion. Understand: The use and importance of particular type of motion,</p>	<p>ASSESSMENT OF LEARNING Objective type questions, Subjective type questions, Applying, Analyzing, Evaluating Creative,value-based questions</p>
<p>JANUARY Date- 09/12/2025 TO 20/12/2025</p>	<p>Ch. 8- Light ,Shadow andReflection</p>	<p>*Introduction *Explanation *Demonstration *Discussion *Application *Video</p>	<p>Students will be able to:- 1)recognize transparent, translucent and opaque objects 2) know about light and its propagation 3) Exploring shadow of different objects with respect to light and its distance 4) deducing property of image with respect to distance</p>	<p>Learner will learn:- 1) different Objects form shadow when it placed in front of light. 2)observe that we can see the candle through a straight pipe, but a bent pipe do not see the candle. Conclusion of this activity is that light travel in a straight line. 3)Size of shadow depends on its distance from light source and the screen. 4)Prepare a simple pin hole camera</p>	<p>Understand: Differentiate: natural and artificial source of light, ray and beam, shadow and image, regular and irregular reflection. Construct: a pinhole camera Identifies: Draw: labeled diagrams Classifies: transparent translucent and opaque object.</p>	<p>ASSESSMENT FOR LEARNING Objective type questions Subjective type questions Applying, Analyzing, Evaluating Creative, value-based questions (Art Integrated Activity) Make a model of pinhole camera.</p>
<p>JANUARY Date- 02/01/2025 To 20/01/2025</p>	<p>Ch.9- Electricity And Circuits</p>	<p>*Introduction *Explanation *Demonstration *Discussion *Application *Video</p>	<p>Students will be able to: 1)Know the use of Electric bulb and electriccell. <ul style="list-style-type: none"> • Importance to electrical circuits. • Classify Electric conductors and insulators. Know Electrical safety.</p>	<p>1)Students will learn the:- Handling and precaution of electric bulb and cell. 2) Without electric circuit no electrical gadgets can work. Insulators are very important for the covering of conductors. To observe That increasing the number of batteries, the potential differences, as well as the current across the resistance,increases proportionally.</p>	<p>Understand: The structure and the function of electric bulb and cell Name some common source of electric current List conditions require for electric current Explain working of electric switch and torch Defines conductors, insulators and differentiates between</p>	<p>ASSESSMENT OF LEARNING Objective type questions, Subjective type questions, Applying, Analyzing, Evaluating Creative, value-based questions (Multiple Assessment activity) Students will be asked to</p>

					them. List precautions when working with electricity and electrical appliances.	bring the circuit material such as electric bulb, wires, and bulb. Then the concept of electric circuit will be introduced followed by making of circuit.
JANUARY Date- 21/01/2025 To 28/01/2025	Ch. 10- Fun with Magnates	*Introduction *Explanation *Demonstration *Discussion *Application *Video	Students will be able to: 1)Identify magnets 2) Understand Properties of magnets. 3)Care and uses of magnets	Students will learn: 1)Magnet attracts certain materials whereas some do not get attracted towards magnet 2) Magnets can be demagnetized by hammering and heating.	Understand: magnets Differentiate: temporary and permanent magnet. Describes: properties of magnet, use of magnet Identifies magnetic and non-magnetic material, different shape of magnet	ASSESSMENT FOR LEARNING (Subject Enrichment activity) 1) Demonstrating how things are attracted by a magnet 2) Activity to locate poles of a magnet, activity with iron filings and paper. 3) Magnetic and non-magnetic materials:
FEBRUARY Date- 29/01/2025 To 08/02/2025	Ch.11 Air around us	*Introduction *Explanation *Demonstration *Discussion *Application *Video	Students will be able to :- 1)Demonstrate that air takes up space. 2)Explain how moving air can work 3)Understand composition of air 4)Demonstrate how oxygen helps in combustion while carbon dioxide is incombustible. Show is present in soil and water	Students will learn: 1) Air occupies space. It fills all the space in the bottle. It is present everywhere around us. Air has no color. It is transparent. 2) Windmill, works on moving air which generates electricity. 3) Experiment of candle with glass tumbler 2) Experiment of soaking soil in water and heating of water	<u>Understand</u> about air around us and its importance <u>Describe</u> : properties of air, composition and importance, breathing mechanism in plants and animals, importance of photosynthesis in plant for preparation of O ₂ , how our personal and industrial activities cause air pollution, air pollution, Suggest efforts to reduce air pollution.	ASSESSMENT OF LEARNING Objective type questions Subjective type questions Applying, Analyzing, Evaluating Creative, value-based questions ASSESSMENT AS LEARNING Activity: Demonstration of burning candle activity by a teacher where a burning candle will be placed in flat plate filled with water and then be covered by a glass. The blowing off of a candle and the rise in level of water will give the concept of presence of oxygen in air.

MARCH

**REVISION + TERM II
EXAMINATION**