

	<b>April</b>	<b>May</b>	<b>June</b>	<b>July</b>
<b>Content</b>	* Food and its Components	* Fibre to Fabric * Sorting Materials into Groups * Separation of substances	* Habitat of the Living * Plants- Form and Function * Animals- Form and Movement	* Things around us
<b>Learning Outcomes</b>	<b>Students will be able to :</b> - Investigate and observe the food components in the given food sample. - Classify animals based on their eating habits. - Understand the causes and symptoms of deficiency diseases with the concept of balanced diet	<b>Students will be able to :</b> - Analyze the difference between fibre and fabric - Classify different types of fibers and familiarize with the process of making cloth. - Compare cloth material used in early times with that of today. - Analyze the importance of different categories of materials. - Categorize the substances according to their properties - Classify about pure substances and mixtures - Generalize various physical processes in separation. - Understand the concept of solubility	<b>Students will be able to :</b> - Classify organisms on the basis of their habitat. - Explore the adaptive features of various animals and plants  - Classify the plants. - Investigate various parts of the plants. (root, stem, leaf and flower- their types, parts, functions and modification) - Discuss and observe the movements in various animals. - Observe and study the human skeleton. - Classify and analyze the functioning of different types of joints	<b>Students will be able to :</b> - Investigate biotic and abiotic components - Study the characteristics of living organisms - Identify the differences between living and non-living things
<b>Skills</b>	Knowledge/ Understanding/ Application/ Analysis/ Evaluation/ Create	Knowledge/ Understanding/ Application/Analysis/ Evaluation/Create	Knowledge/ Understanding/ Application/Analysis/ Evaluation/Create	Knowledge/ Understanding/ Application/ Analysis/ Evaluation/Create
<b>Activities</b>	<b>Competency Skill based Activities/ Experiential learning Activities</b> * Investigation of food items: * Search work/ Explore : students will record and make charts describing their diet over a week * Lab Activity: Testing the presence of nutrients in food.  <b>(Integration with ,IT, Value Education, Art and English)</b>	<b>Competency Skill based Activities/ Experiential learning Activities</b> * <b>Visit to a handloom and writing about it.</b> * Practicing Weaving Patterns using cut paper strips * Demonstration of the concept of floating and sinking * Students will demonstrate various methods of separation of substances through class activities.  <b>(Integration with English and IT)</b>	<b>Competency Skill based Activities/ Experiential learning Activities</b> * Making a herbarium * Demonstration of parts of a plant (root, stem, leaf and flower) * Experiments related to root, stem and leaf * Representation of the skeleton.  <b>(Integration with Art and IT)</b>	<b>Competency Skill based Activities/ Experiential learning Activities</b> * Make a report on the topic "Invisible, yet important."  <b>(Integration with Art and Value Education)</b>
<b>Assessments</b>	Pen – paper test, Observation, Diagrams, Report, Tabular information, Concept map, HOTS, Reasoning questions, Search work, Model, Quiz, Value based questions, C.W and H.W			
	<b>Main Book: Cambridge Science Voyage</b> <b>Publisher: Cambridge University Press</b>			

	<b>August/September</b>	<b>October</b>	<b>November</b>	<b>December</b>
<b>Content</b>	* Changes Around Us *Measurement and Motion *Garbage in Garbage out	*Fun with magnets *Light , Shadow and Reflections	*Electricity and Circuits *Rain, Thunder and Lightning and Water and its importance	*Air around us *Revision of Syllabus
<b>Learning Outcomes</b>	<b>Students will be able to :</b> -Interpret the concept of change. -Enlist various types of changes eg. Reversible and irreversible changes, physical and chemical changes, desirable and undesirable changes, periodic and non-periodic changes etc. -Analyze different types of changes in our surrounding - Compare and measure the distance by ancient and modern methods. -Observe and generalize different types of motion in surroundings. -Discuss the types of wastes -Recognise the concept of three R (reduce, reuse, recycle) -Discuss the methods to minimize and manage garbage.	<b>Students will be able to :</b> -Distinguish between magnetic and non-magnetic materials -Discuss the characteristics of magnets. - Explain the applications of magnets in daily life - Analyze the characteristics of light. -Classify the objects to observe shadow formation. - Comprehend the phenomenon of reflection.	<b>Students will be able to :</b> -Understand electric current and their sources. -Assemble a circuit. -Differentiate open and closed circuits in relation to conductors and insulators. -Identify the importance of water, its states and sources -Discuss and explain scientifically the concept of water cycle - Create awareness about methods of conservation of water.	<b>Students will be able to:</b> -Enlist the properties of air. -Discuss the composition of air
<b>Skills</b>	<b>Knowledge/ Understanding/ Application/ Analysis/ Evaluation/ Create</b>	<b>Knowledge/ Understanding/ Application/Analysis/ Evaluation/ Create</b>	<b>Knowledge/ Understanding/ Application/Analysis/ Evaluation/ Create</b>	<b>Knowledge/ Understanding/ Application/Analysis/ Evaluation/Create</b>
<b>Activities</b>	<b>Competency Skill based Activities/ Experiential learning Activities:</b> *Demonstration of a few examples of chemical and physical changes *Class activities: Measurement of a few household things. *Survey on waste generation at home (Integration with Art and Math)	<b>Competency Skill based Activities/ Experiential learning Activities:</b> *Students will make magnet related games *Class activity: Demonstration of transparent, opaque and translucent objects. *Play and form shadows with hands *Making a pin hole camera/periscope (Integration with Physical Education and Art)	<b>Competency Skill based Activities/ Experiential learning Activities:</b> *Circuit working model (Integration with Art)	<b>Competency Skill based Activities/ Experiential learning Activities:</b> *Experiment in properties of air * Poster on ways to reduce air pollution (Integration with Art)
<b>Assessments</b>	: Pen – paper test, Observation, Diagrams, Report, Tabular information, Concept map, HOTS, Reasoning questions, Search work, Model, Quiz, Value based questions, C.W and H.W			
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