

First Term Curriculum
Session : 2022-23
Subject- Science
Class: VI

| | Feb / March | April | May | June |
|--------------------------|--|---|--|--|
| Content | # Food and Components of food. # Fibre to Fabric. # Sorting Materials into Groups | # Separation of substances. # Things around us | # Habitat of the Living # Plants- Form and Function # Animals- Form and Movement | # Changes Around Us. |
| Learning Outcomes | Students will be able to : - 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 - 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 | Students will be able to : -classify about pure substances and mixtures - generalize various physical processes in separation. - understand the concept of solubility - investigate biotic and abiotic components - study the characteristics of living organisms - identify the differences between living and non-living things | Students will be able to : -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 | Students will be able to : -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 |
| Skills | Knowledge/ Understanding/Application/ Analysis/Evaluation | Knowledge/ Understanding/ Application/Analysis/ Evaluation | Knowledge/ Understanding/ Application/Analysis/ Evaluation | Knowledge/ Understanding/ Application/ Analysis/Evaluation |
| Activities | Competency skill based Activities/ Experiential learning Activities * 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 *Video Demonstration *Practicing Weaving Patterns using cut paper strips * Report on Khadi Movement *Demonstration of the concept of floating and sinking *Flowchart categorizing different materials. *Making an art piece using one particular property Integration with SST,IT, Value Education, Art, English and History. | Competency skill based Activities/ Experiential learning Activities * Students will demonstrate various methods of separation of substances through class activities. *Making of own multipurpose separation device *Make a report on the topic "Invisible,yet important" * Observe a cell under microscope Integration with Art, SST and IT | Competency skill based Activities/ Experiential learning Activities * Fact file *Role play *Flowchart / Chart making *Making a herbarium *Demonstration of parts of a plant(root,stem,leaf and flower) *Experiments related to root,stem and leaf *PPT on animals movement *Representation of the skeleton Integration with Art, IT | Competency skill based Activities/ Experiential learning Activities * I wish I could change *Demonstration of a few examples of chemical and physical changes (Integration with Art) |
| Assessments | : 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 | | | |
| | Main Book: Cambridge Science Voyage | | | |

Final Term Curriculum
Session : 2022-23
Subject- Science
Class: VI

| | July/August | September | October/November | November |
|--------------------------|---|--|--|--|
| Content | #Measurement and Motion #Fun with magnets | #Light , Shadow and Reflections #Electricity and Circuits. | #Garbage in Garbage out # Rain,Thunder and Lightning and Water and its importance | #Air around us #Revision of Syllabus |
| Learning Outcomes | Students will be able to : -compare and measure the distance by ancient and modern methods. -observe and generalize different types of motion in surroundings. -distinguish between magnetic and non-magnetic materials -discuss the characteristics of magnets. - explain the applications of magnets in daily life. | Students will be able to : - analyze the characteristics of light. -classify the objects to observe shadow formation. - comprehend the phenomenon of reflection. -understand electric current and their sources. -assemble a circuit. -differentiate open and closed circuits in relation to conductors and insulators. | Students will be able to : -discuss the types of wastes -recognise the concept of three R (reduce, reuse, recycle) -discuss the methods to minimize and manage garbage. -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. | Students will be able to: -enlist the properties of air. -discuss the composition of air |
| Skills | Knowledge/ Understanding/ Application/Analysis/ Evaluation | Knowledge/ Understanding/ Application/Analysis/Evaluation | Knowledge/ Understanding/ Application/Analysis/Evaluation | Knowledge/ Understanding/ Application/Analysis/Evaluation |
| Activities | Competency skill based Activities/ Experiential learning Activities: *Class activities : Measurement of a few household things. *To enlist types of motion with examples. *Students will stand in front of the mirror and will try finding the characteristics of their image. (Integration with Art, SST and Math) | Competency skill based Activities/ Experiential learning Activities: *Class activity : Demonstration of transparent , opaque and translucent objects. *Play and form shadows with hands *Making a pin hole camera/periscope *Class activities :To explain the working of a torch as an electric object. *Model making (Integration with SST and Art) | Competency skill based Activities/ Experiential learning Activities: Survey for 15 days on how much garbage is generated in house everyday. Is it segregated ? If not, can they do it and how can they dispose of it? Making colorful packets using newspapers *Class activities : To calculate the quantity of water used at home per day.*Making a rain gauge (Integration with Art) | Competency skill based Activities/ Experiential learning Activities: *Class Activity : To show the presence of air by using in house objects like balloons, burning of a candle, windchimes, spin etc. *To show the presence of air in soil. Take a jar and put some soil and pour water in it. The formation of small bubbles will indicate the presence of air. |
| Assessments | : 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 | | | |
| | Main Book: Cambridge Science Voyage | | | |