

KENDRIYA VIDYALAYA SANGATHAN, VARANASI REGION

SPLIT UP SYLLABUS Session: 2021 - 22

SUBJECT - SCIENCE

*** CLASS VI**

*** Total No. of chapters**

16

*** Number of Chapters after 70% reduction in syllabus**

12

*** Number of Chapters allotted for**

Term 1 : 6

Term 2 : 6

S.N.	TERMS	MONTH	Name of book / Units /Name of Chapters /No. of Chapters .	Tentative Number of Days Available in Month.	Tentative Number of Hours Available.	Tentative periods Suggested. (40 min/prd.)	Highlights of General Learning Goals and Core Concept .	Suggested activities / Tools to be used for Teaching Learning Pcess .	Assessment Tools and Techniques to be Used for Assessing Expected Learning Outcomes.
1	TERM - I	April	2. Component of Food.	23	6hrs40min.	10	1. Nutrients as Components of food. 2.Tests for presence of different nutrients (carbohydrates , proteins Fats ,) in different food items. 3. Role of different nutrients for health. 4. Balance diet. 5. Deficiency Diseases.PEM, Hypovitaminosis,HyperNurtition , Obesity .	1. Explanation of different Components of food or Nutrients (carbohydrates , proteins Fats , vitamins and minerals) in different food items. 2.Tests for presence of nutrients (carbohydrates , proteins Fats ,) in different food items. 3. Discussion on Role of different nutrients , dietary fibres and water for health. 4. Balance diet . 5. Deficiency Diseases , PEM, Hypovitaminosis,HyperNurtition , Obesity . Tools :- 1. PPT / videos / pictures from internet. 2.Use self developed Videos and PPT or developed by NCERT available on NROERsources /	1. Oral questions after end of topic in teaching Learning process daily . 2. Home work- activities related to topic and daily life . 3. Class test . 4. Project works . 5. Multidisciplinary projects- Projects - 1. Prepare a diet chart to provide balance diet for a 12 year old child . The diet chart should include food items which are not expensive and are commonly available in your area.

2			3. Fibre to Fabric.		5hrs 20 min.	8	<p>1. Differentiate between Fibres and Fabrics and Different varieties of Fabrics.</p> <p>2. Classification of Fibres as natural and synthetic .</p> <p>3. Processing of plant fibres .</p> <p>4. Process related to manufacturing of Fabric or clothing materials .</p> <p>5. Discuss and appreciate the history of clothing materials.</p> <p>6. Applies learning of scientific concepts in day to day life .eg. uses of various fabrics in different climatic conditions.</p>	<p>1. samples of fibres and fabrics can be used for identification and distinction .</p> <p>2. Natural fibres- wool, silk, cotton, jute and synthetic fibres Rayon , Polyester etc.</p> <p>3. Discussion on the processing of plant fibres.</p> <p>4. Explanation of Process related to manufacturing of Fabric or clothing materials.</p> <p>5. Discussion on history of clothing materials and</p> <p>6. Fabrics used with put stitching now-a-days also .</p> <p>Tools :- 1. Use self developed Videos and PPT or developed by NCERT available on NROER. .http. nroer.gov.in or diksha.gov.in</p>	<p>1. Oral questions after end of topic in teaching Learning process daily .</p> <p>2. Home work activities related to topic and daily life .</p> <p>3. Class test .</p> <p>4. Project works .a. Find out if any crop is grown in your region for obtaining fibre, if yes what is it used for ? b. Visit a nearby handloom or powerloom unit and observe the weaving and knitting of fabrics .</p> <p>5. Multidisciplinary projects- projects- India is a major producer and exporter of cotton and its fibres.</p> <p>1. Collect the data of states where cotton plants grown. 2. Name of countries where it is exported .</p>
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3		May / June	4. Sorting Materials Into Groups.	1+9	4 hrs.	6	<p>1. Sorting or grouping of the objects around us on the basis of materials used to make them.</p> <p>2. Properties of materials: - Appearance, Lustre or shine, Hardness, solubility, Transparency, opacity, translucency.</p> <p>3. Things which are soluble and insoluble in water .</p> <p>4. Transparent, opaque, translucent materials around us.</p>	<p>1. Explanation - What is sorting of materials with the help of examples available in home or class.</p> <p>2. Discussion on (classification of) different objects on the basis of the material they are made up of.</p> <p>3. Activity to explain the Properties of materials- Appearance ,Lustre or shine, Hardness, solubility, Transparency, opacity, translucency.</p> <p>4. Activity to demonstrate solubility of substances in water.</p> <p>5. Discussion on grouping of Transparent, opaque, translucent materials present around us.</p> <p>Tools:- PPT / videos / pictures from internet sources /</p>	<p>1. Oral questions after end of topic in teaching Learning process daily .</p> <p>2. Home work activities related to topic and daily life</p> <p>3. Class test .</p> <p>4. Project works.</p> <p>5. Multidisciplinary projects-</p>
4		July	5. Separation Of Substances	25	6hrs40min.	10	<p>1. Definition.</p> <p>2. Need for separation.</p> <p>3. Methods of separation- (1. Handpicking 2. Threshing 3. Sieving 4. Winnowing 5. Sedimentation 6. Decantation 7. Filtration. 8. Evaporation and 9. Condensation).</p>	<p>1. Explanation of meaning of separation .</p> <p>2. Discussion on- Why separation is needed ?</p> <p>3. Activities related to different methods of separation, used to separate different things . For eg. impurities like stones, pieces of soil and husk from wheat rice and pulses , grains from stalks of crops. butter from milk etc.</p> <p>Tools:- PPT / videos / pictures from internet sources /</p>	<p>1. Oral questions after end of topic in teaching Learning process daily .</p> <p>2. Home work activities related to topic and daily life</p> <p>3. Class test .</p> <p>4. Project works.</p> <p>5. Multidisciplinary projects- projects-</p>
REVISION FOR PERIODIC TEST - I									
PERIODIC TEST -1 FIRST WEEK OF AUGUST , SYLLABUS UP TO JULY									

5	TERM-I	August	7. Getting To Know Plants.	23	6hrs40min.	10	<p>1.Different Types of plants found around us.</p> <p>2.Parts of the plant.</p> <p>3.Identification or classification of plants as Herbs, Shrubs and trees.</p> <p>4.About structure and function of different parts of plants :- Root ,Stem , Leaves and Flowers.</p> <p>5.About Transpiration .</p>	<p>1. Activity related to survey of different types of plants on the basis of size, hard and soft stem etc.</p> <p>2.Discussion on classification of plants as Herbs, Shrubs and trees on the basis of properties of soft ,hard , small and long stem .</p> <p>3.Activity to explain and identify the tap root, lateral root, parts of the leaves(petiole lamina, midrib) parts of flowers (sepals, petals, stamens ,pistil , ovary ,ovules etc.)</p> <p>4.Discussion on venations in leaves transpiration, climber plants , and photosynthesis.</p> <p>Tools:- PPT / videos / pictures from internet sources /</p>	<p>1. Oral questions after end of topic in teaching Learning process daily .</p> <p>2. Home work activities related to topic and daily life</p> <p>3. Class test .</p> <p>4. Project works.</p> <p>5. Multidisciplinary projects- projects-</p>
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6	September.	8. Body Movements.	25	6hrs40min.	10	<p>1. Movement in animals by different body parts- legs (most of the animals) ,whole body (snake).</p> <p>2.Movements in Human beings - different body parts show different types of movements .</p> <p>3. Activity to show the different types of joints(pivot, ball and socket, hinge and gliding) in different body parts and its movement types. 4. Gait of Animals (Movements in animals - in fish , cockroach, snail,earthwarm). 5. explanation of key words - outer skeleton. back bone, streamlined and rib cage .</p>	<p>1. Explanation of Movement in animals by different body parts- legs (most of the animals) ,whole body (snake).</p> <p>2. Activity to show the movements by different body parts in Human beings . 3. Activity to show the different types of joints(pivot, ball and socket, hinge and gliding) in different body parts and its movement types.</p> <p>4.Activity to show the Movements in animals - in fish , cockroach, snail,earthwarm).</p> <p>5. Explanation of key words - outer skeleton. back bone, streamlined and rib cage .</p> <p>Tools:- PPT / videos / pictures from internet sources / Use of self developed Videos and PPT or developed by NCERT available on NROER. .http.</p>	<p>1. Oral questions after end of topic in teaching Learning process daily .</p> <p>2. Home work activities related to topic and daily life . 3. Class test .</p> <p>4. Project works.</p> <p>5.Multidisciplinary projects- projects-</p>
	Revision for Half Yearly Examination							
	Half Yearly examination in first week of october , Syllabus - all chapters from april to september .							

9		12. Electricity and Circuits.		5hrs 20 min.	8	<p>1. Definition of Electricity 2. Electric cell- Identification & Structure 3. Bulb- Structure and connection of bulb to cell or battery . 4. Electric circuit - formation of circuit and flow of current . 5. Electric switch, fuse , conductors and insulators .</p>	<p>1. Explanation or introduction to Electricity 2. Activity to showcase the structure of an electric cell. 3. Activity to show and explain the structure of bulb and its connection to cell or battery . 4. Electric circuit - circuit formation and flow of current . 5. Activity to show and explain Electric switch, fuse , conductors and insulators . Tools:- PPT / videos / pictures from internet sources /</p>	<p>1. Oral questions after end of topic in teaching Learning process daily . 2. Home work activities related to topic and daily life 3. Class test . 4. Project works. 5. projects-</p>
10	December	13. Fun with Magnets	16	6hrs 40 min.	10	<p>1. Magnets - Introduction . 2. Story of discovery of magnets. 3. Magnetic and non-magnetic materials. 4. Magnets of different shapes, poles of magnets . 5. Use of magnets - to find the directions, used in different machines to lift metallic things. 6. Attraction and Repulsion between the poles of magnet.</p>	<p>1. Activity to explain the property of attraction of metal by magnets. 2. Story of discovery of magnets. 3. Activity to demonstrate the difference between magnetic and non-magnetic materials. 4. Explaining the position of poles in magnets of various shapes. 5. Explain the use and utilization of magnets . 6. Activity to demonstrate attraction and repulsion between different poles of magnet Tools:- PPT / videos / pictures from internet sources /</p>	<p>1. Oral questions after end of topic in teaching Learning process daily . 2. Home work activities related to topic and daily life 3. Class test . 4. Project works. 5. Multidisciplinary projects- projects-</p>
	PT II AFTER WINTER BREAK , SYLLABUS FROM OCTOBER TO BEFORE WINTER BREAK							

11	January	15. Air Around us	20	5hrs 20 min.	8	<p>1. Introduction of Air . 2. Composition of air - presence of different gases , dust water vapour etc. 3.Properties of air . Volume , weight 4.Availability of air (Oxygen) in environment as well as for water animals. 5. About atmosphere , air pollution, windmil firki etc. 6. Uses of air</p>	<p>1.Activity to demonstrate the presence of air around us. 2. Explanation about Composition of air - presence of different gases -Oxygen , Nitrogen,Carbon Dioxide , dust, water vapour etc. 3.Properties of air -Volume , Weight 4. the Availability of air (Oxygen) in environment as well as for water animals. 5. Activity to show and explain About air pollution, windmill , firki etc. 6. Discussion on different Use of air . Tools:- PPT / videos / pictures from internet sources /</p>	<p>1. Oral questions after end of topic in teaching Learning process daily . 2. Home work activities related to topic with daily life 3. Class test . 4. Project works. 5. Multidisciplinary projects- projects-</p>
12	February	16. Garbage In, Garbage Out	23	6hrs 40min.	10	<p>1. What is Garbage ? 2.Places where garbage is produced 3.Dealing with Garbage - Landfills, Vermicomposting & red Worms used for it , Humus , compost , Garbage dump , Dustbins, use of plastics boon or curse. 4. Recycling of paper , minimizing the use of plastic and garbage production.</p>	<p>1. Definition of Garbage 2. Discussion on the Places where garbage is produced and dumped outside. 3. Activity to explain dealing with Garbage - Landfills, Vermicomposting & red Worms used for it , Humus , compost . 4.Activity to show the Garbage dump , different types of dustbins for different types of garbage. 5.Discussion on use of plastics boon or curse. 6.Discussion on minimizing the use of plastic and garbage production & Recycling of paper. Tools:- PPT / videos / pictures from internet sources /</p>	<p>1. Oral questions after end of topic in teaching Learning process daily . 2. Home work activities related to topic and daily life 3. Class test . 4. Project works. 5. Multidisciplinary projects- projects-</p>
	Revision for Session Ending Examination Examination							
13	March	REVISION / SSESSION ENDING EXAMINATION						

Note:- The Chapters - 1. Food :- Where Does it Come From , 6. Changes Around Us , 9.The Living Organisms and Their Surroundings ,14. Water are Deleted for session 2021-2022 Under 70% reduction . Thses chapters will not be included for queston papers and evaluation . Students can read it with the help of peers, parents and teachers .