

SBP DAV CENTENARY PUBLIC SCHOOL, FATEHABAD
SubjectSCIENCE..... ClassVIII.....
Term 1 (April-September)

CHAPTER	CONTENT	ACTIVITIES/ Co-curricular Activities
April Chapter 1- The cell – its structure and its functions	Discovery of the cell, The cell-Variation, Parts of cell, Levels of organization in an organism, Comparison between plant cell & animal cell.	i) Preparation of Onion peel mount ii) Comparative study of plant & animal cell using charts. iii) Multimedia Module.
April Chapter 2 Micro-organisms - Friends or Foes	Types of microorganisms, Role of microorganisms, Microorganisms as our friends, Microorganisms- The foes, Food poisoning, Food preservation. Multimedia Module.	*Survey to find out the cause, symptoms and preventive measures of diseases Typhoid & Malaria. Make a chart on use of natural and chemical preservatives in different food items.
May Chapter 3 Metals and non - metals	Classification & occurrence of elements, Minerals and ores, Physical & Chemical properties of metal and non-metals, Displacement reactions, Noble metals, Uses of metals and non-metals, Alloy-Composition	To demonstrate chemical properties of metals & Non-Metals, Multimedia Module. Collage making on metals, non-metals & alloys functionalities
May Chapter 4: Force and Pressure	Force and its effects, Balanced & unbalanced forces, Types of forces, Pressure & its application in daily life, Liquid pressure & its properties, Atmospheric pressure & Its importance	i) Group activity to show the effects of force, pressure in daily life. ii) To study the properties of liquid pressure. iii) Worksheet on nature and kind of forces, use of atmospheric pressure in our daily life
June Chapter 5: Friction	Concept of friction & cause, Factor affecting friction, Types of friction, Friction –A Necessary Evil, Methods of increasing/ reducing friction, Fluid Friction	i) To study effect of friction in daily life. ii) How rolling reduces friction. iii) Fluid friction can be reduced by adjusting the shapes of bodies.
June Chapter 6: Sources of energy	Classification of sources of energy, Fossil fuels, Coal & petroleum, Wood as Fuel, Cleaner fuels.	* Make a report on electrical consumption in your house from last 6 months bills, note down the units and the charges. Suggest some ways that can help to reduce the consumption.
July Chapter 7: Combustion	Combustion & Combustible materials, Conditions required for Combustion, Types of Combustion, Fire control, Flame, Fuel & calorific value, Characteristics of a good fuel, Harmful effects	i) Conditions required for combustion. ii) To demonstrate that oxygen is necessary for combustion. iii) To study Zones of candle flame.

<p>July Chapter 8. Conservation of Plants and Animals.</p> <p>August 9. Crop production and its management</p> <p>August 10. Refraction and dispersion of light</p>	<p>Domestic & global Consequences of deforestation, Conservation of forests & wild-life, Ecosystem, Species, Biosphere reserves, National Parks, Wildlife Sanctuaries, Flora & Fauna, Endemic species, Red data book, Migration, Reforestation, Recycling of paper.</p> <p>Introduction of agricultural practices, Role of leguminous plants, Crop improvement</p> <p>Refraction and its cause, Refracted index, Rules for refraction, Refraction by a glass slab, Dispersion, Spherical lenses & basic terms, Image formation by convex and concave lenses, Application of lenses</p>	<p>i) Multimedia Module</p> <p>ii) Slogan Writing & Poster Making on- Save Forests & Save wild Life</p> <p>i) Visit to a nearby farm to see the agricultural practices. Make a report and find out the names and uses of various machines that are used in the farm.</p> <p>ii) To prepare compost at home.</p> <p>i) To show refraction of Light.</p> <p>ii) To study the formation and nature of the image, using lenses.</p>
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Term 2 (October-March)

CHAPTER	CONTENT	ACTIVITIES/ Co-curricular Activities
<p>October Chapter 11 - The Human Eye</p>	<p>Structure of human eye & function of various parts, Working of human eye, Range and defects of vision, Care of eyes, Visually challenged persons-help for them, Braille system.</p>	<p>i) To Study human eye with model of eye. ii) Survey on defects of vision. Multimedia Module.</p>
<p>October Chapter 12 - Sound</p>	<p>Sound & vibrations, Sounds produced by human and animals, Propagation of sound, Amplitude, time period and frequency of a vibration, Loudness and pitch, Audible & inaudible sounds, Noise & music, Noise pollution, Hearing</p>	<p>i) To show propagation of sound through water. ii) To study human ear with model of ear.</p>
<p>October Chapter 13 Synthetic fibres and plastics</p>	<p>Synthetic fibres, Advantages & disadvantages, Plastics, Characteristics, Types of synthetic plastic, plastics & the environment, Damage caused, Measures to control</p>	<p>i) To study material made up of Thermoplastic & thermosetting plastic ii) Collection of different types of fibres and compare their properties</p>
<p>November Chapter 14 Reproduction in animals</p>	<p>Asexual & sexual reproduction, Reproductive patterns, systems, Fertilization, development of the embryo, Reproduction by hens, Viviparous & oviparous animals, Journey of young ones to adult</p>	<p>i) Clay molding, showing life cycle of frog ii) Enlist five organisms with their reproductive patterns, number of eggs laid at one time, the incubation period etc.</p>
<p>November Chapter 15 Reaching the age of adolescence</p>	<p>Adolescence and puberty, Changes, Sexual development, Determination of sex of the child, The Endocrine system, Role of hormones in the life cycle of insects & frogs, Reproductive health.</p>	<p>i) Group discussion on the topic: " Adolescence: A unique phase marked by concerns and challenges." ii) Find out the sex ratio of your state. Compare it with the state having the best ratio and prepare a report, mentioning the probable reasons, demerits etc.</p>
<p>November Chapter 16 – Electric current and its effect</p>	<p>Conductor & Insulators, Conduction through liquids & its cause, Electrolytes,</p>	<p>i) Arrangement of a continuity tester and checking of different types of liquids and how to increase their conductivity.</p>

<p>December Chapter 17 Stars and solar system</p>	<p>Conversion of chemical energy into electrical energy, Chemical effects, their applications, Faraday's discovery, Electromagnetic induction</p> <p>Galaxy, Stars, Constellations, The moon, The solar system, Sun, Planets, Minor bodies, Artificial satellites & their applications</p>	<p>ii) Hydrolysis of water.</p> <p>iii) Demonstration of electroplating.</p> <p>iv) Demonstration of electro-magnetic induction.</p> <p>i) Presentation on stars and solar system by students</p>
<p>December Chapter 18 Earthquakes</p>	<p>Earthquakes and their effects, Cause, The Focus, predicting an earthquake, Measuring an earthquake, Protection & safety precautions</p>	<p>On the map of world, indicate the places where tsunami is more likely to occur. Find out the problems faced by people living in these regions.</p>
<p>December Chapter 19 Pollution of air</p>	<p>Air pollution, Causes, Harmful effects of pollutants, Acid Rain & its harmful effects, Greenhouse effect, its Causes & consequences, global warming, its consequences, measures to check, Methods to Control air pollution.</p>	<p>Slogan Writing on Pollution of water or air</p>
<p>December Chapter 20 Pollution of water</p>	<p>Water pollution & its causes, Potable water, Purification of water, Control of water pollution, Conservation of water</p>	<p>Discuss with your grandparents and learn about the methods of purification of water of old times, collect the pictures and make a report on it.</p>