

CURRICULUM OF SCIENCE
SESSION 2023-24
CLASS – VIII

Month	Content	Project /Activity	Oral Class Work	Written Work
APRIL	<ul style="list-style-type: none"> ● Chapter-1 ● Crop Production and Management ● *Agriculture practices ● *Basic Practices of Crop Production ● *Preparation of Soil ● *Sowing ● *Adding manure and Fertilizer ● *Irrigation ● Protection from weeds ● Harvesting , Storage ● Chapter -3 ● Synthetic Fibre and Plastics ● *What are Synthetic fibres ● *Types of Synthetic Fibres ● *Characteristics of Synthetic Fibres ● *Plastics Plastics as Material of Choice 	<p>Video Kharif and Rabi Crops Methods of Irrigation Activity Hands on Activity to demonstrate Selection of Seeds</p> <p>Video Synthetic Fibres and uses Activity Debate on the Topic :My fabric is Superior</p>	<p>*Oral Questioning *N C E R T Exemplar discussion</p> <p>*Oral Questing *NCERT Exemplar Discussion</p> <p>Studying the effect of force on objects</p>	<ul style="list-style-type: none"> ● Key terms –Crop, Rabi , Kharif , manure , weedicide , soil . ● Key Questions, NCERT Exercise. ● Science Exemplar ● Assignment: Diagrams of different types of instruments related to agriculture.
MAY	<ul style="list-style-type: none"> ● Chapter -11 ● Force and Pressure ● *Force as Push or a Pull ● *Forces are due to an interaction ● Pres ● sure *Exploring forces ● A force can Change the State of Motion ● Force Can Change The Object ● *Contact and Non- contact force ● *Pressure ● *Pressure Exerted by liquid and gases Atmospheric 	<p>Video Forces due to interaction Contact and Non –Contact Force Activity Identifying action as push or pull</p>	<p>Oral Questioning Group discussion</p>	<p>Key terms – force ,gravity. Key questions NCERT Exercise Assignment :Project on different properties of liquid pressure</p> <ul style="list-style-type: none"> ●

	<ul style="list-style-type: none"> Chapter -12 Friction Factors affecting Friction Friction :a necessary evil Interaction and reducing friction Wheels reduce friction Fluid friction . 	<p>Video</p> <p>Friction : a necessary evil</p> <p>Fluid Friction</p> <p>Activity :Wheel reduces Friction</p>	<p>Oral Questions</p> <p>Group discussions</p>	<p>Key terms :drag, friction ,key question ,</p> <p>Assignment : on different aspects of friction</p>
JULY	<ul style="list-style-type: none"> Chapter -2 (Microorganism; Friend and Foe) Microorganism Where do microorganisms live Microorganisms and us Harmful microorganisms Food preservation Nitrogen Fixation Nitrogen Cycle . 	<p>Video</p> <p>Nitrogen cycle</p> <p>Activity</p> <p>Observation Of Pond Water for presence of microorganism</p> <p>Hands On activity to demonstrate fermentation of sugar solution and dough using yeast .</p> <p>To show temporary and permanent slides of various microorganisms</p>	<p>Oral Questions</p>	<p>Key terms :</p> <p>Microorganism ,Antibiotics, Pasteurization,</p> <p>Assignment: To draw Nitrogen Cycle On a chart paper</p> <p>Diagram of different Microorganisms</p>
AUGUST	<ul style="list-style-type: none"> Chapter-4 Materials :Metals and Non-Metals Physical properties of Metals and Non-Metals Chemical properties of metals and Non-Metals Uses of Metals and Non-Metals Chapter-13 Sound Sound is produced by vibrating body Sound produced by Humans Sound Needs a medium for propagation 	<p>Video</p> <p>Displacement Reactions</p> <p>Activity</p> <p>To check the electrical conductivity Materials</p> <p>Burning of Sulphur Powder</p> <p>Video</p> <p>Human Ear</p> <p>Sound Needs a Medium for Propagation</p> <p>Activity</p> <p>Jal Tarang</p>	<p>Self Framed Oral Questions</p> <p>Self Framed Oral Questions</p>	<p>Key terms :</p> <p>Malleability ,ductility , sonorous, conductor , insulator ,tensile strength</p> <p>Key questions</p> <p>Assignment: Comparison chart of metals and non – metals</p> <p>Key terms – Amplitude , frequency ,pitch, noise</p> <p>Assignment : Model</p>

	<ul style="list-style-type: none"> • We hear sound through our ears • Amplitude , time period and frequency • Audible and Inaudible sound • Noise and Music • Noise Pollution 			of Human Ear Chart on Characteristics Of Sound
SEPTEMBER	HALF YEARLY EXAMINATION			
OCTOBER	<ul style="list-style-type: none"> • Chapter -5 • Coal and Petroleum • Coal • Petroleum • Natural Gas • Why natural resources are limited 	<p>Video Exhaustible and inexhaustible natural resources</p> <p>Activity Locating places where coal and petroleum are found</p>	Self Framed Oral Questions	<p>Key terms : fossil fuels</p> <p>Assignment :Chart on sources and uses of coal and petroleum</p> <p>Diagram of refining of petroleum</p>
	<ul style="list-style-type: none"> • Chapter -10 • Reaching the age of Adolescence • Adolescence and Puberty 	<p>Video: Endocrine Glands and functions</p> <p>Sex determination in unborn baby</p> <p>Activity: Calculation of full height of students</p> <p>Collection of information about HIV /AIDS</p>	Self Framed Oral Questions	<p>Key terms : Hormones ,Adams apple, Insulin, adolescence</p> <p>Key questions</p> <p>Assignment : diagram of Sex determination</p>
NOVEMBER	<ul style="list-style-type: none"> • Chapter-14 • Chemical effects of electric current 	<p>Video : Electroplating</p> <p>Activity : Testing Conduction of electricity in lemon juice or vinegar</p>	Self Framed Oral Questions	<p>Key terms : LED , Conductors and non conductors , electroplating</p> <p>Key questions</p> <p>Assignment : To make chart on electroplating</p>
	<ul style="list-style-type: none"> • Chapter -6 • Combustion and Flame • Combustion • How do we control fire • Types of Combustion Flame ; structure of a Flame • Fuel and its Classification 	<p>Activity Experiment to show that oxygen is essential for combustion</p> <p>Video Fire Extinguisher</p> <p>Different Zones of candle</p>	Self Framed Oral Questions	<p>Key terms : Combustion ,flame ,acid rain ,ideal fuel</p> <p>Key question</p> <p>Assignment : Diagram of</p>

	<ul style="list-style-type: none"> Fuel efficiency Calorific value 			different zones of candle flame
DECEMBER	<ul style="list-style-type: none"> Chapter -18 Pollution of Air and Water Air Pollution How is air polluted Case study :The Taj Mahal Green House Effect Water Pollution Potable Water Water Purification 	<p>Video Air Pollution Water Pollution Green House Effect Activity Comparison of different samples of water</p>	Self Framed Oral Questions	<p>Key terms : Air pollution, water pollution ,global warming , Key question Assignment : Chart of water/air pollution</p>
	<ul style="list-style-type: none"> Chapter -15 Some Natural Phenomenon Lightning Charging by Rubbing Transfer of Charges The story of lightning Lightning Safety <p>Earthquake</p>	<p>Video Charging by Rubbing Earthquake Activity Types of Charges and their interaction Working of electroscope</p>	Self Framed Oral Questions	<p>Key terms : Lightning ,earthquake ,tsunami ,crust Key questions Assignment : To make chart on safety measures on lightning and earthquake</p>
JANUARY	<ul style="list-style-type: none"> Chapter -8 Cell Structure and Functions Discovery of the cell The cell Cell Structure and Function Parts of The cell Comparison of Plant and Animal Cells 	<p>Video Difference between plant and animal cells Activity Temporary slide of onion peel and Human cheek cell</p>	Self Framed Oral Questions	<p>Key terms : cell , tissue ,nucleus ,cytoplasm ,mitochondria Key questions Assignment to make model of plant/animal cells</p>
	<ul style="list-style-type: none"> Chapter -9 Reproduction in animals Mode of Reproduction Sexual Reproduction Asexual Reproduction 	<p>Video Male/Female Reproductive System Binary Fission Budding Metamorphosis Activity</p>	Self Framed Oral Questions	<p>Key terms : sexual/asexual reproduction Budding ,binary fission ,sperm ,egg Key questions Assignment : diagram of</p>

	<ul style="list-style-type: none"> • Chapter-16 • Light • Introduction of Light • Laws of Reflection • Regular and Diffuse Reflection • Multiple images • Sun Light • Human Eyes • Care of the Eyes • Visually Challenged Person • Braille System 	<p>To Observe the Slide of Binary Fission in Amoeba</p> <p>Video Reflection of Light Human Eye</p> <p>Activity : Multiple Reflection using Mirror Kaleidoscope construction and working</p>	Self Framed Oral Questions	<p>male and female reproductive system</p> <p>Key terms :Light, ray , Laws of reflection ,prism ,kaleidoscope Key questions Science exemplar Assignment: To make a kaleidoscope Diagram of Human eye</p>
FEBRUARY	<ul style="list-style-type: none"> • Chapter -17 • Star and Solar System • Celestial bodies • The Moon • The Stars • Constellations • The Solar System • Some other members of solar system <p>REVISION OF ENTIRE SYLLABUS</p>	<p>Video: Phases of Moon Constellation Solar System Solar and Lunar Eclipse</p>	Self Framed Oral Questions	<p>Key terms : Constellations, celestial bodies ,stars , moon , solar system Assignment to make model of constellations Diagram of phases of moon , great bear ,Orion, Cassiopeia, Leo major ,</p>
MARCH	ANNUAL EXAMINATION			