

CURRICULUM OF SCIENCE
SESSION 2023-24
CLASS – VIII

Month	Content	Project /Activity	Oral Class Work	Written Work
APRIL	<p>Chapter-1 Crop Production and Management</p> <ul style="list-style-type: none"> ● *Agricultural practices ● *Basic Practices of Crop Production ● *Preparation of Soil ● *Sowing ● *Adding manure and Fertilizer ● *Irrigation ● Protection from weeds ● Harvesting , Storage 	<p>Video Kharif and Rabi Crops Methods of Irrigation Activity Hands on Activity to demonstrate Selection of Seeds</p>	<p>*Oral Questioning *N C E R T Exemplar discussion</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	<p>Chapter -8 Force and Pressure</p> <ul style="list-style-type: none"> ● *Force as Push or a Pull ● *Forces are due to an interaction ● Pressure ● 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 Pressure 	<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>Studying the effect of force on objects</p>	<p>Key terms – force ,gravity. Key questions NCERT Exercise Assignment :Projecton different properties of liquid pressure</p>

<p style="text-align: center;">JULY</p>	<p>Chater -2 (Microorganism; Friend and Foe)</p> <ul style="list-style-type: none"> • Microorganism • Where do microorganisms live • Microorganisms and us • Harmful microorganisms • Food preservation Nitrogen Fixation • Nitrogen Cycle <p>Chapter -9 Friction</p> <ul style="list-style-type: none"> • Factors affecting Friction • Friction :a necessary evil • Interaction and reducing friction • Wheels reduce friction Fluid friction . 	<p>Video Nitrogen cycle Activity Observation Of Pond Water for presence of microorganism Hands On activity to demonstrate fermentation of sugar solution and dough using yeast . To show temporary and permanent slides of various microorganisms</p> <p>Video Friction : A necessary evil Fluid Friction Activity :Wheel reduces Friction</p>	<p>Oral Questions</p> <p>Oral Questions Group discussions</p>	<p>Key terms : Microorganism ,Antibiotics, Pasteurization, Assignment: To draw Nitrogen Cycle On a chart paper Diagram of different Microorganisms</p> <p>Key terms :drag, friction ,key question , Assignment : on different aspects of friction</p>
<p style="text-align: center;">AUGUST</p>	<p>Chapter-10 Sound</p> <ul style="list-style-type: none"> • Sound is produced by vibrating body • Sound produced by Humans • Sound Needs a medium for propagation • We hear sound through our ears • Amplitude , time period and frequency • Audible and Inaudible sound • Noise and Music • Noise Pollution <p>Chapter-5 Conservation of Plants and Animals</p> <ul style="list-style-type: none"> • Deforestation and its Causes • Consequences of Deforestation • Conservation of forest and wildlife • Biosphere Reserve • Flore and Fauna • Endemic Species • Wildlife Sanctuary • National park • Red Data Book • Migration • Recycling of Paper • Reforestation 	<p>Video Human Ear Sound Needs a Medium for Propagation Activity Jal Tarang</p> <p>Video Conservation of forest and wildlife</p>	<p>Self Framed Oral Questions</p> <p>Self Framed Oral Questions</p>	<p>Key terms – Amplitude , frequency ,pitch, noise Assignment : Model of Human Ear Chart on Characteristics Of Sound</p> <p>Key terms- Biodiversity, Ecosystem, Endemic Species, Endangered Species</p>

SEPTEMBER	HALF YEARLY EXAMINATION			
OCTOBER	<p>Chapter -3 Coal and Petroleum</p> <ul style="list-style-type: none"> • Coal • Petroleum • Natural Gas • Why natural resources are limited <p>Chapter -7 Reaching the age of Adolescence</p> <ul style="list-style-type: none"> • Adolescence and Puberty 	<p>Video Exhaustible and inexhaustible natural resources Activity Locating places where coal and petroleum are found Video: Endocrine Glands and functions Sex determination in unborn baby Activity: Calculation of full height of students Collection of information about HIV /AIDS</p>	<p>Self Framed Oral Questions</p> <p>Self Framed Oral Questions</p>	<p>Key terms : fossil fuels Assignment :Chart on sources and uses of coal and petroleum Diagram of refining of petroleum Key terms : Hormones ,Adams apple, Insulin, adolescence Key questions Assignment : diagram of Sex determination</p>
NOVEMBER	<p>Chapter -4 Combustion and Flame</p> <ul style="list-style-type: none"> • Combustion • How do we control fire • Types of Combustion Flame ; structure of a Flame • Fuel and its Classification • Fuel efficiency • Calorific value 	<p>Activity Experiment to show that oxygen is essential for combustion Video Fire Extinguisher Different Zones of candle</p>	<p>Self Framed Oral Questions</p>	<p>Key terms : Combustion ,flame ,acid rain ,ideal fuel Key question Assignment : Diagram of different zones of candle flame</p>
DECEMBER	<p>Chapter -12 Some Natural Phenomena</p> <ul style="list-style-type: none"> • Lightning • Charging by Rubbing • Transfer of Charges • The story of lightning <p>Lightning Safety Earthquake</p>	<p>Video Charging by Rubbing Earthquake Activity Types of Charges and their interaction Working of electroscope</p>	<p>Self-Framed Oral Questions</p>	<p>Key terms: Lightning , earthquake, tsunami, crust Key questions Assignment: To make chart on safety measures on lightning and earthquake</p>
JANUARY	<p>Chapter -6 Reproduction in Animals</p> <ul style="list-style-type: none"> • Mode of Reproduction • Sexual Reproduction • Asexual Reproduction 	<p>Video Male/Female Reproductive System Binary Fission Budding Metamorphosis Activity</p>	<p>Self-Framed Oral Questions</p>	<p>Key terms: sexual/asexual reproduction Budding, binary fission , sperm, egg Key questions Assignment: diagram of</p>

	<p>Chapter-16 Light</p> <ul style="list-style-type: none"> • 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>	<p>Self Framed Oral Questions</p>	<p>male and female reproductive system</p> <p>Key terms :Light, ray , Lawsof reflection ,prism ,kaleidoscope Key questions Science exemplar Assignment: To make a kaleidoscope Diagram of Human eye</p>
FEBRUARY	<p>Chapter-11 Chemical effects of electric current</p>	<p>Video : Electroplating</p> <p>Activity : Testing Conduction of electricity in lemon juice or vinegar</p>	<p>Self Framed Oral Questions</p>	<p>Key terms : LED , Conductors and non conductors , electroplatingKey questions Assignment : To make charton electroplating</p>
MARCH	ANNUAL EXAMINATION			