



THE ADVENT SCHOOL (2026-27)

CLASS-VIII | SUBJECT-SCIENCE

TERM WISE SYLLABUS

NAMES OF TEXTBOOKS-

1. CURIOSITY (NCERT)

TERM – I (April to May)		
PRE – MID TERM		
CHAPTERS NAME	TOPICS	EXPERIMENTS/ACTIVITIES
Chapter-1 Exploring the Investigating World of Science.	<ul style="list-style-type: none"> • Scientific methods and Inquiry. • Observation and experimentation. • Relationship between living world and their environment. 	Structure of Onion Peel / leaf under microscope (Demonstration Method)
Chapter-2 The Invisible Living World: Beyond our Naked Eye (Biology)	<ul style="list-style-type: none"> • Microscopic organisms. • Structure of Cell. • Animal cell and Plant cell. • Levels of Organization in the body of Living Organism. • Micro-organisms (Pond water and Soil suspension). • Useful and harmful micro-organisms. • Role of micro-organisms in Nature. 	
Chapter-3 Health: The Ultimate Treasure (Biology)	<ul style="list-style-type: none"> • Meaning of Health. • Importance of Health (Balanced Diet). • Factors Affecting Health. • Personal Hygiene. • Disease and their types (Communicable and Non-communicable Diseases). • Transmission of Disease (Through air, contaminated water and food, insects). • Preventions and treatment of Diseases. 	

MID-TERM (July-September)

<p>Chapter-4 Electricity: Magnetic and Heating Effects (Physics)</p>	<ul style="list-style-type: none"> • Electricity and flow of electric current. • Heating effect of electric current. • Electromagnets and their uses (Electric bell). • Electric cells (Voltaic cell, Dry cells, Rechargeable batteries) 	<p>Make an electric cell using various fruits and vegetables.</p>
<p>Chapter-5 Exploring Forces (Physics)</p>	<ul style="list-style-type: none"> • Introduction to Force. • Effects of Force. • Types of Forces (Contact and Non-contact force) • Weight and its Measurement • Buoyant force. 	
<p>Chapter-6 Pressure, Winds, Storms, and Cyclones (Physics)</p>	<ul style="list-style-type: none"> • Introduction to Air Pressure. • Pressure and its Measurement. • Atmospheric Pressure. • Formation of Wind in Nature. • Storms, thunderstorm and lightning. • Cyclones and its effect. 	

TERM – II

POST MID – TERM (October-December)

<p>Chapter-7 Particulate Nature of Matter (Chemistry)</p>	<ul style="list-style-type: none"> • Introduction to Matter. • States of Matter. • Characteristics of Particles of Matter. • States of Matter. • Diffusion 	<p>Presence of Hydrogen gas - Experiment</p> <p>Using Measuring Cylinder – measure the volume of liquid (Demonstration method)</p>
<p>Chapter-8 Nature of Matter: Elements, Compounds, and Mixtures (Chemistry)</p>	<ul style="list-style-type: none"> • Classification of Matter. • Types of Mixtures. • Pure and Impure substances. Elements (Elements, Compounds and Mixture). • Minerals. 	
<p>Chapter-9 The Amazing World of Solutes, Solvents and Solution (Chemistry)</p>	<ul style="list-style-type: none"> • Introduction to Solution. • Components of a Solution (Solute and Solvent) • Properties of Solution. • Saturated and unsaturated solution • Determination of density. • Volume of solid shapes with regular shapes. 	

FINAL TERM (January-March)

<p>Chapter-10 Light: Mirrors and Lenses</p>	<ul style="list-style-type: none"> • Introduction to Light. • Reflection of Light. • Spherical Mirror (Convex and Concave) • Characteristics of Images formed by Spherical Mirrors. • Lens (Concave and Convex) • Uses of Lens. 	<p>Using some daily life objects (Spoon, Plates) identify which type of image is/are formed.</p>
<p>Chapter-11 Keeping Time with the Skies (Physics)</p>	<ul style="list-style-type: none"> • Phases of The Moon. • Seasons and Time. • Eclipses (Solar and Lunar Eclipse). • Calendars (Solar and Lunar Calendars). • Artificial Satellite. 	<p>Make a model of phases of Moon with the use of balls.</p>
<p>Chapter-12 How Nature Works in Harmony (Biology)</p>	<ul style="list-style-type: none"> • Introduction to Nature and Ecosystem. • Interaction between Organisms and their Surroundings. • Biotic and Abiotic Components. • Food Chain (Producer, consumer, decomposers) and Food Web. • Balance in Nature (Role of Plants, Animals, and Decomposers). • Conservation of Nature. 	<p>Visit your school garden and find out how many plants show sexual/Asexual reproduction.</p>
<p>Chapter-13 Our Home: Earth, a Unique Life Sustaining Planet</p>	<ul style="list-style-type: none"> • Unique features of Earth. • Layers of Earth (Crust, Mantle, Core). • Conditions Necessary for Life. • Sexual and Asexual Reproduction. • Human Impact on Earth. • Conservation of Earth. 	<p>Visit your school garden and find out how many plants show sexual/Asexual reproduction.</p>
<p>Chapter-4 Electricity: Magnetic and Heating Effects.</p>	<p>Revised Chapter (Mid-Term).</p>	