



THE ADVENT SCHOOL (2026-27)

CLASS-VII | SUBJECT-SCIENCE

TERM WISE SYLLABUS

NAMES OF TEXTBOOKS-

1. CURIOSITY (NCERT)

TERM – I		
PRE – MID TERM		
CHAPTERS NAME	TOPICS	EXPERIMENTS/ACTIVITIES
Chapter-1 The Ever-Evolving World	<ul style="list-style-type: none"> • Introduction to branches of science. • Science in daily life. • Science and Environment. 	<p>Testing the nature of samples with litmus papers (blue & red), rose extract, turmeric aqueous solution.</p> <p>Construct an electric circuit using components of circuit, insulator/ conductor.</p>
Chapter-2 Exploring Substances: Acidic, Basic and Neutral (Chemistry)	<ul style="list-style-type: none"> • Identifying substances around us. • Natural indicators & their use. (Litmus, Red Rose, Turmeric) • Properties of Acids & Bases. • Acids and Bases in Everyday Life. • Neutral Substances & Neutralization. • (Real life Examples-Stinging effect of an ant bite, Neutralising the acidic nature of soil). 	
Chapter-3 Electricity: Circuits and their Components (Physics)	<ul style="list-style-type: none"> • Introduction to Electric Circuits. • Components of an Electric Circuit. • Electric cell and Battery. • Electrical Component and Symbols. • Conductors & Insulators. 	
MID-TERM		
Chapter-4 The World of Metals and Non-metals (Chemistry)	<ul style="list-style-type: none"> • Identifying Materials Around Us. • Physical Properties of Materials (Malleability, Hardness, lustrous, ductility, sonority, conduction of heat and electricity). • Differences between Metals & Non-Metals. • Chemical Reactions (Material react with air, water). • Role of metals and non-metals in everyday life. 	<p>Burning Mg Ribbon and identify the nature of magnesium oxide with litmus paper - Using Demonstration Method.</p>

<p>Chapter-5 Changes Around Us: Physical and Chemical (Chemistry)</p>	<ul style="list-style-type: none"> • Introduction to Changes. • Physical Changes (Shape, Size, State). • Chemical Changes. • Desirable and Undesirable Changes. • Slow and Fast Changes. 	<p>Combustion Process – Focusing the sunrays using a magnifying glass</p>
<p>Chapter-6 Adolescence: A Stage of Growth and Change (Biology)</p>	<ul style="list-style-type: none"> • Introduction to Adolescence and Puberty. • Physical Changes During Adolescence. • Emotional and Mental Changes. • Hormones and Menstrual Cycle (Basic understanding). • Importance of Healthy Lifestyle. • Reproductive Health. • Balanced Social Life (Respect and Awareness). <p>Avoiding Harmful Substances (Alcohol, cigarette, drugs etc.)</p>	
<p>TERM – II</p>		
<p>POST MID – TERM</p>		
<p>Chapter-7 Heat Transfer in Nature (Physics)</p>	<ul style="list-style-type: none"> • Modes of Heat Transfer (Conduction, Convection, Radiation). • Land Breeze and Sea Breeze. • Water Cycle • Importance of Heat transfer in Nature and Daily Life. 	
<p>Chapter-8 Measurement of Time and Motion (Physics)</p>	<ul style="list-style-type: none"> • Introduction to Time and Motion. • Unit of Time (second, minute, hour). • Types of Motion (Rectilinear, Circular, Periodic motion). • Distance and speed. • Uniform and Non-Uniform motion. • Importance of time and motion. 	
<p>Chapter-9 Life Process in Animals (Biology)</p>	<ul style="list-style-type: none"> • Types of Nutrition in Animals. • Digestion in Human beings (Ingestion, Digestion, Absorption, Assimilation, Egestion). • Digestive system in Humans and Ruminant (Parts and function). • Breathing and Respiration in Animals. 	

FINAL TERM (January-March)

<p>Chapter-10 Life Processes in Plants (Biology)</p>	<ul style="list-style-type: none"> • Basic processes in Plants. • Mode of Nutrition in Plants. • Process of Photosynthesis. • Respiration in Plants (Exchange of Gases). • Transport of Material (Movement of Water, Minerals and Food). 	<p>Iodine Test- To find out the presence of Starch in Leaves.</p>
<p>Chapter-11 Light: Shadows and Reflections (Physics)</p>	<ul style="list-style-type: none"> • Sources of Light. • Luminous and Non-luminous Objects. • Transparent, Translucent and Opaque Objects. • Formation of Shadows. • Reflection of Light. • Images formed in a Plane mirror. • Pinhole Camera (Basic idea). 	<p>Multiple Reflection – Make a Kaleidoscope.</p>
<p>Chapter-12 Earth, Moon and The Sun (Physics)</p> <p>Chapter-4 The World of Metal and Non-Metal (Chemistry)</p> <p>Chapter-9 Life Processes in Animals (Biology)</p>	<ul style="list-style-type: none"> • Introduction to Celestial bodies. • Source of Heat and Light. • Motions of the Moon (Rotation and Revolution). • Phases of the Moon. • Eclipses (Solar and Lunar Eclipse). <p>Revised Chapter (Mid Term).</p> <p>Revised Chapter (Post Mid-Term).</p>	