



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). 	<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"> ● Differences between Metals & Non-Metals. ● Chemical Reactions (Material react with air, water). ● Role of metals and non-metals in everyday life. 	<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 Changes. ● Physical Changes (Shape, Size, State). ● Chemical Changes. ● Desirable and Undesirable Changes. ● Slow and Fast Changes. <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>		

Chapter-7 Heat Transfer in Nature (Physics)	<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. 	
Chapter-8 Measurement of Time and Motion (Physics)	<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. 	Shadow clock
Chapter-9 Life Process in Animals (Biology)	<ul style="list-style-type: none"> ● Importance of time and motion. ● 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. 	Understanding breathing with simple model
FINAL TERM (January-March)		
Chapter-10 Life Processes in Plants (Biology)	<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). 	Iodine Test- To find out the presence of Starch in Leaves.
Chapter-11 Light: Shadows and Reflections (Physics)	<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. 	Multiple Reflection – Make a Kaleidoscope.
Chapter-12	<ul style="list-style-type: none"> ● Images formed in a Plane mirror. ● Pinhole Camera (Basic idea). 	

<p>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>	
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