

**AIR FORCE SCHOOL, BAMRAULI**  
**ANNUAL SPLIT-UP OF SYLLABUS**  
**ACADEMIC SESSION (2026-27)**

**CLASS-VII**  
**BOOK- CURIOSITY**

**SUB-SCIENCE**

MONTH NAME	CHAPTER NO. & NAME	TOPIC/SUBTOPIC	ACTIVITY	PERIODS
APRIL	Ch-2 Exploring Substances Acidic Basic and Neutral	Acids, Base, Salt, Indicators, Olfactory Indicators, Litmus paper test, Rose extract test, Turmeric test, Neutralisation, Neutralisation in everyday life	<ul style="list-style-type: none"> <li>● Testing with Litmus Paper</li> <li>● Turmeric Indicator Test</li> <li>● Natural Indicator with China Rose</li> <li>● Neutralization Reaction</li> </ul>	10
	Ch3 Electricity Circuits and Their Components	Cell, Battery, Electric Lamp, Electric circuit, LED, Symbols of Components of Electric circuit, Circuit diagrams, Conductors, Insulators, Open circuit, Closed Circuit	<ul style="list-style-type: none"> <li>● Making a Simple Electric Circuit</li> <li>● To identify conductors and insulators.</li> <li>● To observe bulb filament.</li> </ul>	14
MAY-JUNE	Ch-10 Life Processes in Plants	Photosynthesis, Respiration in plants, Transportation in plants, Transpiration, Stomata for gas exchange	<ul style="list-style-type: none"> <li>● Test for Starch in leaf</li> <li>● Observe fungi on bread</li> <li>● Observe root nodules in leguminous plants</li> </ul>	11
JULY	Ch-4 The World of Metals and Non metals	Introduction to elements, Properties of metals, Properties of non- metals, Uses of Metals and Non-metals, Special Cases & Exceptions	<ul style="list-style-type: none"> <li>● Identify Lustre in Metals</li> <li>● To Test Hardness to substances</li> <li>● Test Conductivity of Electricity in substances</li> <li>● To observe rusting of iron</li> </ul>	16

AUGUST	Ch-5 Changes Around Us Physical and Chemical	Physical & Chemical Changes: Definition & Characteristics: Changes in state, shape, size, or color, Reversibility	Observation of Melting of ice, Boiling of water, Dissolving sugar in water, Cutting paper, Heating candle wax, Rusting of iron, Burning paper and classifying them into chemical and physical change	12
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	Ch-8 Measurement of Time and Motion	Measuring Time, Simple pendulum, Oscillation, Time period, Types of Motion, Speed	Making a simple pendulum, Making sundial, Compare watches/clocks, Identifying types of motion	11
SEPTEMBER	Ch-9 Life Processes in Animals	Food ingestion methods, digestion in humans/ruminants, the breathing mechanism (inhalation/exhalation), energy release (cellular respiration), and waste removal.	<ul style="list-style-type: none"> <li>● Observe breathing rate before and after exercise</li> <li>● Model of human digestive system</li> <li>● Draw and label respiratory system</li> <li>● Test pulse rate at rest and after running</li> <li>● Identify parts of excretory system</li> </ul>	15
OCTOBER	Ch-7 Heat Transfer in Nature	Conduction, convection, and radiation, conducting materials, ocean currents, land/sea breezes, and the water cycle	<ul style="list-style-type: none"> <li>● Identify sources of heat in nature</li> <li>● Demonstrate conduction using metal spoon in hot water</li> <li>● Show convection using heated water experiment</li> <li>● Observe radiation from sunlight</li> </ul>	16
NOVEMBER	Ch-11 Light Shadows and Reflections	Classification of materials, luminous/non-luminous objects, pinhole cameras, and lateral inversion, Reflection of light	<ul style="list-style-type: none"> <li>● Make shadow using torch and object</li> <li>● Observe shadow size at different distances</li> <li>● Show transparent, translucent, opaque materials</li> <li>● Reflection using plane mirror</li> <li>● Write message using mirror image</li> <li>● Make periscope model</li> </ul>	11

DECEMBER	Ch-6 Adolescence: A Stage of Growth and Change	Physical growth, secondary sexual characteristics, reproductive maturity, hormonal regulation, reproductive health, and emotional/behavioral shifts	<ul style="list-style-type: none"> <li>• Chart on stages of growth and development</li> <li>• Prepare hygiene habits poster</li> <li>• Role play on emotional changes and behaviour</li> </ul>	12
JANUARY	Ch-12 Earth, Moon & Sun	Earth's rotation (day/night) and revolution (seasons), the Moon's phases and orbit, and the mechanics of solar and lunar eclipses	<ul style="list-style-type: none"> <li>• Model of Earth, Moon and Sun</li> <li>• Rotation of Earth activity</li> <li>• Revolution of Earth activity</li> <li>• Day and night chart</li> <li>• Phases of Moon observation</li> </ul>	16