

**ARMY PUBLIC SCHOOL, MUMBAI (2018-2019)****STANDARD CURRICULUM****CLASS - VII****SUBJECT – SCIENCE**

<b><u>S.NO</u></b>	<b><u>MONTH</u></b>	<b><u>LESSON</u></b>	<b><u>ACTIVITIES</u></b>	<b><u>VALUES/SKILLS</u></b>	<b><u>CORE</u></b>
1	APRIL	Lesson 1-Nutrition In Plants	<ul style="list-style-type: none"><li>To Show that Carbon Dioxide is necessary for Photosynthesis.</li><li>To grow and observe bread mold.</li></ul>	Creative Thinking can be enhanced, curiosity, Effective communication, Skill of team work, confidence.	Knowledge
2	MAY-JUNE	Lesson2- Nutrition in Animals	<ul style="list-style-type: none"><li>To study the effect of saliva on starch.</li><li>To make an ORS (oral rehydrating solution).</li></ul>	Interest, Curiosity, creative thinking, care of glass apparatus used.	Environmental awareness
		Lesson 3- Fibre to Fabric	<ul style="list-style-type: none"><li>Collect and paste pictures of wool yielding animals from different parts of the world.</li><li>To differentiate Artificial and Natural Wool/ Silk.</li></ul>	Environmental awareness and conservation.	
3	JULY	Lesson 4- Heat	<ul style="list-style-type: none"><li>To observe the Clinical and Laboratory Thermometer to identify the different parts.</li><li>To find the Temperature of hot water.</li></ul>	Innovative thinking, self awareness, Problem solving , Creative thinking	Positive attitude
		Lesson 5- Acids, Bases and Salts.	<ul style="list-style-type: none"><li>To see the effects of Indicators using different liquids.</li></ul>	Reasoning, Scientific aptitude creative thinking, curiosity.	
		Lesson 6- Physical and Chemical changes.	<ul style="list-style-type: none"><li>To demonstrate a neutralization reaction.</li><li>To observe that constituents of a compound lose their unique properties.</li><li>To prepare crystals of Copper Sulphate from an Impure sample of <math>\text{CuSO}_4</math></li></ul>	Self awareness, Discipline, confidence, positive attitude, Team work , Leadership quality, curiosity , Management of lab equipments, awareness about	

				chemicals (Acids/Bases)	
4	AUGUST	Lesson -7 Weather, Climate and Animal Adaptation.	<ul style="list-style-type: none"> <li>Cut the news report from any Newspaper showing the Max. And Min. Temperature of a place and Paste it.</li> </ul>	Logical thinking, leadership value, ability of being curious and decision making, Teamwork	National pride
		Lesson 8- Winds, storms and cyclones	<ul style="list-style-type: none"> <li>To plot a graph of daily changes in Temperature and Humidity.</li> <li>To make a windmill.</li> </ul>	Environmental awareness, Global outlook, Interest will be developed.	Scientific temperament
5	SEPTEMBER	Lesson 9: Soil	<ul style="list-style-type: none"> <li>To show that the soil absorbs water and has Moisture.</li> <li>To find out the percolation rate of Water.</li> </ul>	Decision making, Problem solving skills, confidence, Discipline, Observing value, Team work, Perseverance.	Time management
		Lesson 10- Respiration in organisms.	<ul style="list-style-type: none"> <li>To demonstrate the mechanism of Breathing.</li> </ul>	Self awareness, Innovative thinking, Interest, Curiosity, Knowledge.	
6	OCTOBER	Lesson 11- Transportation in animals and plants	<ul style="list-style-type: none"> <li>To demonstrate Transpiration</li> <li>To measure the pulse.</li> </ul>	Environmental awareness, Knowledge, Self awareness, curiosity, Positive attitude, comprehension.	Respecting difference
		Chapter 12- Reproduction In Plants	<ul style="list-style-type: none"> <li>To study vegetative propagation in an Onion or a potato.</li> <li>To dissect a flower.</li> </ul>	Environmental awareness, Knowledge, Curiosity, Interest, Sensitivity to Environment.	
7.	NOVEMBER	Chapter 13- Time and Motion	<ul style="list-style-type: none"> <li>To show the constancy of the Time Period of a Pendulum.</li> <li>To calculate the speed of any moving object.</li> </ul>	Problem Solving , decision making Reasoning and Logical thinking ,	Health and wellness
		Chapter 14- Electric currents and its effects.	<ul style="list-style-type: none"> <li>To make an electromagnet and show that it attracts iron.</li> <li>To make an electric circuit.</li> </ul>	Interest, Health and wellness, Knowledge, creative skills etc. Critical thinking, Creative thinking, curiosity , team work, psychomotor skills , Confidence etc.	

8	DECEMBER	Chapter 15- Light	<ul style="list-style-type: none"> <li>To observe Concave and Convex Lens and study the nature of Images formed.</li> <li>Newtons disc</li> </ul>	Cooperation, Interest , Observation , hard work, creativity , team work, etc.	Camaraderie
		Chapter 16- Water – A Life-giving Liquid	<ul style="list-style-type: none"> <li>To submit a project report on topic Conservation of Water.</li> <li>Write different Slogans / Quotes on water conservation.</li> </ul>	Environmental awareness, creative thinking, positive outlook, Logical thinking, Long term vision,	
9	JANUARY	Chapter 18- Forests: Our lifeline	<ul style="list-style-type: none"> <li>To enhance the Knowledge by giving the topic “ Role of Forests in our life” for a symposium in advance.</li> </ul>	Patriotism, Sensitivity to environment , positive outlook , etc.	Self - direction
10	FEBRUARY	Chapter 19 – Wastewater Story.	<ul style="list-style-type: none"> <li>To locate the Annual mean rainfall of different place of India . (Rainfall Map of India )</li> </ul>	Environmental Awareness, Use of Maps , Knowledge, Long term vision, Love and respect	Right conduct