

ARMY PUBLIC SCHOOL, MUMBAI (2019-2020)
STANDARD CURRICULUM

CLASS - VIII

SUBJECT – SCIENCE

<u>MONTH</u>	<u>LESSON</u>	<u>ACTIVITY</u>	<u>VALUES/SKILLS</u>	<u>CORE VALUE</u>
APRIL	Crop production and management	(a) Concept based work sheet (b) Diagram based work sheet	(a) To inculcate long term vision to practice good Agricultural activities (b) To develop creativity in students (c) Effective communication	Self Awareness
	Microorganism: friends and foe	(a) To show CO ₂ gas evolves during fermentation sugar - alcohol (b) Curd formation	Development of positive attitude and pleasure of team work Effective communication	
MAY	Synthetic Fibres & plastics	Power point presentation Benefits of using eco-friendly plastics	(a) Develop confidence to present a topic before an audience (b) Develop interest in creative learning	Teamwork
JUNE	Metals and Non metals	Lab activity reaction of metals and nonmetals with Oxygen water acid corrosion Quiz	Hand on activities help students maintain focus and develop essential problem solving skills. Students will find a classroom quiz to be engaging and exciting, Environmental sensitivity.	Teamwork
JULY	Coal and Petroleum	Power point presentation showing extraction and refining of petroleum.	Takes initiative in planning activities for the conservation of fossil fuels. Creative thinking	Environmental Awareness
	Combustion and Flame	1) Activity to show air is necessary for combustion 2) Lab activity to show different zones of a flame, inflammable substances	Students will be able to learn that fire is a necessary evil. Project based learning boost their co - operative learning skills.	
	Conservations of Plants and Animals	Power point presentation of Biodiversity endangered species, endemic species etc	Develop environment awareness and conservation of natural resources (wild life), Creative thinking	
AUGUST	Cell – Structure and Function	1) To prepare a temporary slide of an onion peel and cheek	Develops observation skill and able to analyzes a problem, Teamwork	Patriotism and Nationalism

		cells observe the cells under a microscope 2) To make a family tree starting from maternal and paternal grandparents to study the colour of eyes and skin	Brings real life connect to learning.	
	Reaching the age of adolescence.	1) Talk with school counselor calculation of full height discussion about bad effects of using drugs.	Awareness about Gender sensitivity Mutual respect, develop self awareness, Teamwork.	
SEPT	Force and Pressure	Using classroom situations different types of forces will be shown.	Develop knowledge about the different types of forces existing in nature and investigate the importance in everyday situations, Positive Attitude.	Discipline & Diligence
OCT	Reproduction in Animals	Diagram based work sheet.	Recognizes and analyzes a problem, demonstrates positive attitudes towards learning, Perseverance	Diversity & Togetherness
	Friction	Activity to apply concept of friction in our day to day tasks i.e. working on computer, walking, writing.	To develop scientific temper and spirit of enquiry to safeguard public property, Positive attitude.	
NOV	Chemical effects of current	Lab activity	To develop scientific temper and spirit of enquiry, Health & Wellness	Gender sensitivity
	Sound	Activity to show sound requires a medium for its propagation	Development of experimental skills, creative thinking confidence etc, Health and Wellness	
DEC	Light	Activity to verify laws of reflection	Will be able to develop keen observation skill, Cooperation	Perseverance
	Some natural phenomenon	To make a simple electroscope	To develop scientific temper, Cooperation	
JAN	Stars and the Solar System	Prepare fact sheets on each of the eight planets of the solar system	Support and empathy development, Patriotism and Nationalism	Effective communication
FEB	Pollution of Air and Water	Make a colourful poster on the need to control air and water pollution	To protect and improve natural resources, Love and Respect	Efficient Time management