

ARMY PUBLIC SCHOOL, MUMBAI (2019-2020)

STANDARD CURRICULUM

CLASS:XII

SUB: CHEMISTRY

<u>MONTH</u>	<u>NAME OF THE LESSON</u>	<u>ACTIVITY</u>	<u>VALUES AND SKILLS</u>	<u>CORE VALUES</u>
APRIL	Solutions	i)To calculate normality and strength of Mohr salt using M/20 KMnO_4 . ii)To calculate normality and strength of Oxalic acid using M/20 KMnO_4 .	Values: Innovative mindset, Global outlook Skills: Creative skills and spirit of enquiry.	Self awareness
	Electrochemistry	To find out EMF of Zn – Cu cell.	Values: Dependability and Responsibility Skills: Scientific skill, Critical and Logical Thinking	
	Co-Ordination compounds	Project on preparation of different co-ordination compounds used as poster paints.	Values: Honesty and Integrity, Self confidence Skills: Creative skill, Logical Thinking, Decision making	
MAY JUNE	Chemical Kinetics	To study effect of concentration on rate of reaction between Sodium Thiosulphate and temperature.	Values: Togetherness, Positive attitude Skills: Analytical skill and Logical presentation	Team work and Environmental awareness
	Haloalkanes and Haloarenes	To identify different halogens in the given organic compound with the help of chemical tests.	Values: Problem solving, Loyalty Skills: Sensitivity towards environment, Critical and Logical thinking	
	Alcohols, Phenols and Ethers	To identify whether given compound is alcohol or phenol with the help of chemical tests.	Values: Caring and sharing, Capability, Challenge Skills: Decision making, Togetherness	
	Polymers	Project on preparation of Biodegradable polymer	Values: Determination, Challenge, Unity Skills: Creativity, Responsibility, Care for Environment	
JULY	Chemistry in Everyday Life	Project on preparation of Soap and check its foaming capacity in hard and soft water.	Values: Right choices, Optimism, Vision Skills: Analytical skills, Decision making, Care for the environment	Environmental Awareness

AUGUST	<p>Aldehydes, Ketones and Carboxylic acids</p> <p>General Principles and Isolation of Elements</p> <p>Amines</p>	<p>To check the presence of Aldehyde, Ketone or Carboxylic acid in the given organic compound with the help of chemical tests. To draw Flow Sheet diagram for Metallurgy.</p> <p>To test presence of amine in the given organic compound with the help of chemical tests.</p>	<p>Values:Decisiveness, Challenge Skills: Reasoning, Logical Thinking</p> <p>Values:Integrity, Dependence, Freedom Skills:Awareness, Decision making, Organisational skills Values:Independent, Caring, Reliability Skills:Critical Thinking</p>	Patriotism and Nationalism
SEPTEMBER	Biomolecules	To carry out test for carbohydrates in the given Food sample.	<p>Values: Dependability, Positive attitude, Accountability Skills:Teamwork, Decision making</p>	Discipline and Diligence
OCTOBER	<p>Biomolecules</p> <p>d and f Block Elements</p> <p>Surface Chemistry</p>	<p>To analyse given Food samples for presence of Carbohydrates, Fats and Proteins.</p> <p>Comparison of characteristics of 4f and 5f elements</p> <p>To prepare sol.</p>	<p>Values: Innovative mindset, Global outlook, Integrity Skills:Scientific Temperament, Knowledge, spirit of enquiry. Values:Commitment, Sincerity Skills: Curiosity, Discipline, Teamwork</p> <p>Values:Selflessness,Reliability Skills:Adaptability, Teamwork</p>	Diversity and Togetherness
NOVEMBER	Some p- Block Elements	Comparative study of compounds of different p- block elements	<p>Values: Comparison, Recognition Skills:Logical Thinking, Curiosity</p>	Gender sensitivity