

ARMY PUBLIC SCHOOL, MUMBAI (2019-2020)**STANDARD CURRICULUM****CLASS:XI****SUB: CHEMISTRY**

| <u>MONTH</u> | <u>NAME OF THE LESSON</u> | <u>ACTIVITY</u> | <u>VALUES AND SKILLS</u> | <u>CORE VALUES</u> |
|---------------------|---|--|--|---------------------------------------|
| JUNE | Organic Chemistry- Some Basic Principles and Techniques | To prepare Lassaigne Extract and check presence of Nitrogen/ Halogen in it. | Values: Caring and sharing, Capability, Challenge Skills: Decision making, Togetherness, Analytical skill | Team work and Environmental awareness |
| JULY | Hydrocarbons | To check whether the given unknown organic compound is Saturated or Unsaturated with the help of chemical tests. | Values: Right choices, Optimism, Vision Skills: Analytical skills, Decision making, Care for the environment | Environmental Awareness |
| AUGUST | Some Basic Concepts in Chemistry Atomic Structure Classification of Elements and Periodicity in properties | i)To prove Law of Conservation of Mass ii) Numericals To draw diagrams of: i)Discovery of Cathode and Anode ray ii)Rutherford Model of atom iii)Radioactivity To draw rough sketch of Periodic Table and label it. | Values: Decisiveness, Challenge Skills: Reasoning, Logical Thinking Values: Integrity, Dependence, Freedom Skills: Awareness, Decision making, Organisational skills Values: Dependability, Caring, Accountability Skills: Critical Thinking, Togetherness,Discipline | Patriotism and Nationalism |
| SEPTEMBER | Thermodynamics Chemical Bonding and Molecular Structure | Numericals i)Power Point Presentation of different types of bonding | Values: Dependability, Positive attitude, Accountability Skills: Teamwork, Decision making Values: Integrity, Caring and Sharing, Positive Attitude,Reliability Skills: Interpersonal skills, Leadership,Constructive, Long term Vision | Discipline and Diligence |
| OCTOBER | Chemical Bonding and Molecular Structure | ii)To draw Molecular Orbital diagrams of different molecules | Values: Innovative mindset, Global outlook, Integrity Skills: Scientific Temperament, Knowledge, spirit of enquiry. Values: Commitment, Sincerity Skills: Curiosity, Discipline, Teamwork | Diversity and Togetherness |

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| | States of Matter | | Values: Selflessness,Reliability,Dependability Skills: Adaptability, Teamwork | |
| | Chemical Equilibrium | Numericals To study Le-Chatlier principle(Effect of concentration) | | |
| NOVEMBER | Chemical Equilibrium Redox Reactions Hydrogen | Numericals related to pH. To find EMF of Zn-Cu cell. To compare Hard water and Soft water and to find the reason for the same. | Values: Comparison, Recognition Skills: Logical Thinking, Curiosity Values: Dependability, Commitment Skills: Scientific skills,Decision making,Curiosity Values: Comparison,Efficiency,Commitment Skills: Interdependence, Spirit of enquiry, Knowledge | Gender sensitivity |
| DECEMBER | s-Block Elements Some p-Block Elements | i)Comparative study of s and p block elements ii)To carry out the Flame test | Values: Comparison, Interdependence, Commitment Skills: Reasoning, Logical thinking | Perseverance |
| JANUARY | Some p-Block Elements Environmental Chemistry | To prepare power point presentation on different topics related to Environmental chemistry.(by students) | Values: Recognition, Comparison, Reliability Skills: Curiosity, Critical thinking, Caring and sharing Values: Team work, Environmental awareness, Decision making Skills: Commitment, Discipline | Effective Communication |