**INDIAN SCHOOL ALW ADI AL KABIR**

**DEPARTMENT OF SCIENCE 2018– 19**

**WEEKLY PLAN MONTH - August CLASS: IX**

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| CHEMISTRY | I WEEK | II WEEK | III WEEK | IV WEEK | V WEEK |
| **DATE/ INSTRUCTION PERIODS** | **1-2**  **(2)** | **5 - 9**  **(3)** | **12 - 16**  **(3)** | **19 - 23**  **(3)** | **26 - 30**  **(3)** |
|  | Pure substances-Elements,Compounds&Mixtures  **Practical 1** | Types of mixtures-Solution  Colloids and suspension  **Practical 2** | Separation techniques-  Evaporation Sublimation  Centrifugation | Separation funnel  Chromatography | Distillation.  Fractional distillation |
| Practical:   1. **Difference between compounds and mixtures** 2. **Preparation of : a) a true solution of common salt, sugar, and alum b) a suspension of soil, chalk powder and fine sand in the water c) a colloidal solution of starch in water and egg albumin/milk in water  and distinction between these on the basis of transparency/ filtration criterion/stability** | | | | | |

**WEEKLY PLAN MONTH - September CLASS: IX**

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| CHEMISTRY | I WEEK | II WEEK | III WEEK | IV WEEK | V WEEK |
| **DATE/ INSTRUCTION PERIODS** | **2 - 6**  **(2)** | **9 - 13**  **(3)** | **16 - 20**  **(2)** | **23 - 27**  **(3)** | 30 |
|  | Crystallisation.  Physical change & Chemical change | Water purification system  **Practical** | ATOMS & MOLECULES  Introduction | Laws of chemical combinations | Laws of chemical combinations…continues |
| **Practical: Preparation of** **a) a mixture b) a compoundusing iron filings and sulfur powder and distinction between these on the basis of: (i) appearance, i.e., homogeneity and heterogeneity (ii) behavior towards a magnet (iii) behavior towards carbon disulfide as a solvent (iv) effect of heat** | | | | | |

**WEEKLY PLAN MONTH – October CLASS : IX**

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| CHEMISTRY | I WEEK | II WEEK | III WEEK | IV WEEK | V WEEK |
| **DATE/ INSTRUCTION PERIODS** | **2 - 6**  **(2)** | **9 - 13**  **(3)** | **16 - 20**  **(2)** | **23 - 27**  **(3)** | 30 |
|  | Crystallisation.  Physical change & Chemical change | Water purification system  **Practical** | ATOMS & MOLECULES  Introduction | Laws of chemical combinations | Laws of chemical combinations…continues |
| **Practical: Preparation of** **a) a mixture b) a compoundusing iron filings and sulfur powder and distinction between these on the basis of: (i) appearance, i.e., homogeneity and heterogeneity (ii) behavior towards a magnet (iii) behavior towards carbon disulfide as a solvent (iv) effect of heat** | | | | | |

**WEEKLY PLAN MONTH – November CLASS : IX**

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| CHEMISTRY | I WEEK | II WEEK | III WEEK | IV WEEK | V WEEK |
| **DATE/ INSTRUCTION PERIOD/SPLIT UP** | **1**  **(1)** | **4 - 8**  **(3)** | **11 - 15**  **(3)** | **18 - 22**  **(3)** | **25 - 29**  **(3)** |
|  | Chemical formula | Molecular mass Formula unit mass  **Practical –** | Mole concept | Mole concept (Cont.) | Chapter-STRUCTURE OF ATOM  Anode and cathode rays |
| **Practical – Performing the following reactions and classifying them as physical or chemical changes : a) Iron with copper sulfate solution in water b) Burning of magnesium ribbon in air c) Zinc with dilute sulphuric acid d) Heating of copper sulfate crystals e) Sodium sulfate with barium chloride in the form of their solutions in water.** | | | | | |

**WEEKLY PLAN MONTH – December CLASS : IX**

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| **CHEMISTRY** | **I WEEK** | **II WEEK** | **III WEEK** | **IV WEEK** | **V WEEK** |
| **DATE/ INSTRUCTION PERIOD/SPLIT UP** | **2 - 6**  **(3)** | **9 - 13**  **(3)** | **16 - 20**  **(3)** | 23 - 27 | 30 - 31 |
|  | Atomic models  Thomson’s model Rutherford’s model  **Practical** | Bohr’s model  POST MID TERM | Valency  Ions  Atomic number & Mass Number  POST MID TERM | Holidays | Holidays |
| **Practical: Verification of the law of conservation of mass in a chemical reaction.** | | | | | |

**WEEKLY PLAN MONTH - January CLASS: IX**

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| CHEMISTRY | I WEEK | II WEEK | III WEEK | IV WEEK | V WEEK |
| **DATE/ INSTRUCTION PERIOD/SPLIT UP** | **1 - 4** | **6 - 10** | **13 - 17**  **(3)** | **20 - 24**  **(3)** | **27 - 31**  **(2)** |
|  | Holidays | Holidays | Valency  Ions  Atomic number & Mass Number | Isotopes & Isobars | Chapter-NATURAL RESOURCES  Air  Water, Soil |

**WEEKLY PLAN MONTH - February CLASS : IX**

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| **CHEMISTRY** | **I WEEK** | **II WEEK** | **III WEEK** | **IV WEEK** | **V WEEK** |
| **DATE/ INSTRUCTION PERIOD/SPLIT UP** | **3 - 7** | **10 - 14** | **17 - 21**  **(3)** | **24 - 28**  **(3)** |  |
|  | Biogeochemical cycles syllabus completes for class 9 | Revision | Final Assessment begins |  |  |