WEEKLY PLAN

Indian School Al Wadi Al Kabir - Syllabus break up for APRIL 2017

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| **Class** | **Week1**  5-6 | **Week2**  **9-13** | **Week3**  **17-20** | **Week4**  **23-27** |
| CLASS XI  CHEMISTRY |  |  | **Some Basic Concepts of Chemistry**:   * General Introduction: Importance and scope of chemistry. * Nature of matter, laws of chemical combination * Dalton's atomic theory: * Atomic and molecular masses, mole concept and molar mass. * PRACTICAL: Introduction to lab procedure, Salt Analysis; Preliminary tests | * Percentage composition, empiricaland molecular formula Stoichiometry and calculations based on stoichiometry.   **Structure of Atom**   * Bohr's model and its limitations * Concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, * Heisenberg uncertainty principle |

Syllabus break up for MAY 2017

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| **Class** | **Week 1**  30/4/17 - 4/5/17 | **Week 2**  **7-11** | **Week 3**  **14-18** | **Week 4**  **21-25** |
| CLASS XI  CHEMISTRY | * Concept of orbitals, quantum numbers, shapes of s, p and d orbitals * Aufbau principle, Pauli's exclusion principle and Hund's rule * Electronic configuration of atoms, stability of half-filled and completely filled orbitals. * PRACTICAL: SALT I | **Classification of Elements and Periodicity in Properties**   * Significance of classification, brief history of the development of periodic table, modern periodic * Valency, Nomenclature of elements with atomic number greater than 100. * Periodic trends in properties of elements –atomicradii. * Ionic radii, inert gas radii Ionization enthalpy, electron gain enthalpy, electronegativity. | **Chemical Bonding and Molecular structure**   * Valence electrons, ionic bond, covalent bond; bond parameters, Lewis structure * Polar characterof covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometryof covalent molecules * PRACTICAL: SALT II   UNIT TEST I | * VSEPR Theory   UNIT TEST I  **Environmental Chemistry – PROJECT**  **SUMMER VACATION**  From 28th of May |