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
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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 |