**Indian School Al Wadi Al Kabir - Syllabus break up for**

April 2019-CHEMISTRY

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| **CLASS XI** | **WEEK 1** | **WEEK 2** | **WEEK 3** | **WEEK 4** | **WEEK 5** |
| **DAYS** | **1-4** |  **10 -11** | **14-18** | **21-25** | **28-30** |
|  |  |  **Some Basic Concepts of Chemistry**:General Introduction: Importance and scope of chemistry.Nature of matter, laws of chemical combinationDalton's atomic theory: Atomic and molecular masses, mole concept and molar mass. | Dalton's atomic theory: Atomic and molecular masses, mole concept and molar mass.Percentage composition, empirical and molecular formula Stoichiometry and calculations based on stoichiometry. | **Structure of Atom**Bohr's model and its limitationsConcept of shells and subshells, dual nature of matter and lightde Broglie's relationship,Heisenberg uncertainty principle | Concept of orbitals, quantum numbers, shapes of s, p and d orbitalsAufbau principle, Pauli's exclusion principle and Hund's rule |
| **LAB TOPICS:**  Introduction to lab procedure, Salt Analysis 1 |

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| **CLASS XI** | **WEEK 1** | **WEEK 2** | **WEEK 3** | **WEEK 4** | **WEEK 5** |
| **DAYS** | **1-2** |  **5-9** | **12-16** | **19-23** | **26-30** |
|  | Electronic configuration of atoms, stability of half-filled and completely filled orbitals. | **Classification of Elements and Periodicity in Properties**Significance of classificationbrief history of the development of periodic table, modern periodic tableValencyNomenclature of elements with atomic number greater than 100.Periodic trends in properties of elements –atomic radii. | Ionic radii, inert gas radii Ionization enthalpy.Periodic trends in Electron gain enthalpy.**UNIT TEST 1** | Periodic trends in electronegativity .Variation of chemical properties across a period and down the group.**UNIT TEST 1** | **Chemical Bonding and Molecular structure**Kossel Lewis theory**UNIT TEST 1** |
| **LAB TOPICS:** Salt Analysis – 2 **PREPARED BY Mr. Anoop Stephen & Ms. Jenesha HOD -SCIENCE** |