**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 combination  Dalton'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 limitations  Concept of shells and subshells, dual nature of matter and light  de Broglie's relationship,  Heisenberg uncertainty principle | Concept of orbitals, quantum numbers, shapes of s, p and d orbitals  Aufbau 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 classification  brief history of the development of periodic table, modern periodic table  Valency  Nomenclature 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** | | | | | |