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| **Indian School Al Wadi Al Kabir - Syllabus break up for 2014-15** |
| Class 11chemistry | Week1  | Week2  | Week3  | Week4  |
| **APRIL** | **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.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 dorbitals Rules for filling electrons in orbitals. Electronic configuration of atoms, stability of half filled and completely filled orbitals. |
| **MAY** | **Classification of Elements and Periodicity in Properties**Significance of classification, brief history of the development of periodic table, modern periodicPeriodic trends in properties of elements –atomic radii. | Ionic radii, inert gas radii Ionization enthalpy, electron gain enthalpy, electronegativity.Valency, Nomenclature of elements with atomic number greater than 100. | **Chemical Bonding and Molecular structure**Valence electrons, ionic bond, covalent bond; bond parameters, Lewis structurePolar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometryof covalent molecules. | VSEPR theory, concept of hybridization, involving s,p and d orbitalsShapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules, hydrogen bond. |
| **JUNE** | **Hydrogen**Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of Hydrogen.Hydrides-ionic covalent and interstitial. | Physical and chemical properties of water,Heavy water, hydrogen peroxide -preparation, reactions and structure and use. Hydrogen as a fuel. **Environmental Chemistry – PROJECT****ASSESSMENT I****SUMMER VACATION** |  |  |

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| **Indian School Al Wadi Al Kabir - Syllabus break up for SEPTEMBER 2014** |
| Class 9 | Week1  | Week2  | Week3  | Week4  |
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| **Indian School Al Wadi Al Kabir - Syllabus break up for OCTOBER 2014** |
| Class 9 | Week1  | Week2  | Week3  | Week4  |
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| **Indian School Al Wadi Al Kabir - Syllabus break up for NOVEMBER 2014** |
| Class 9 | Week1  | Week2  | Week3  | Week4  |
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| **Indian School Al Wadi Al Kabir - Syllabus break up for DECEMBER 2014** |
| Class 8 | Week1  | Week2  | Week3  | Week4  |
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| **Indian School Al Wadi Al Kabir - Syllabus break up for JANUARY 2014** |
| Class 8 | Week1  | Week2  | Week3  | Week4  |
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| **Indian School Al Wadi Al Kabir - Syllabus break up for FEBRUARY 2014** |
| Class 8 | Week1  | Week2  | Week3  | Week4  |
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