**INDIAN SCHOOL AL WADI AL KABIR**

**DEPARTMENT OF SCIENCE 2015-16**

**WEEKLY PLAN-CLASS 7-SCIENCE**

Indian School Al Wadi Al Kabir - Syllabus break up for August2015

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| **Class** | **Week1** | **Week2** | **Week3** | **Week4** | **Week 5** |
| CLASS VII SCIENCE | **Matter and chemical formulae**  **Introduction-Composition of matter, Atoms and molecules, Elements** | **Matter and chemical formulae(contd..)**  **Compounds, mixtures, Chemical symbol, atomicity, Chemical formulae, Valency, Writing a formulae.**  **Text book Exercises** | **Respiration in organisms**  **Introduction, Steps of respiration, Respiration in humans, Mechanism of breathing, Composition of inhaled and exhaled air, Exchange of gases** | **Respiration in organisms(contd…)**  **Cellular respiration, types of respiration-aerobic and anaerobic respiration. Differences between aerobic and anaerobic respiration** | **Respiration in organisms(contd…)**  **How do other animals breathe?**  **Respiration through skin, air holes, gills, lungs.**  **Respiration in plants.**  **Text book Exercises** |

Indian School Al Wadi Al Kabir - Syllabus break up for September 2015

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| **Class** | **Week1** | **Week2** | **Week3** | **Week4** | Week 5 |
| Class VII  SCIENCE | Revision | Revision | SA I | SA I | SA1 |

Indian School Al Wadi Al Kabir - Syllabus break up for october 2015

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| **Class** | **Week1** | **Week2** | **Week3** | **Week4** | **Week 5** |
| Class VII  SCIENCE | **Transportation in animals**  **Introduction,** | **Transportation in animals(contd..)**  **Circulatory system in humans, Blood, Human heart, Functioning of heart** | **Transportation in animals(contd..)**  **Heart beat and pulse, Excretion in animals, Transportation of water and minerals in plants, Transpiration**  **Text book Exercises** | **Weather climate and animal adaptations**  **Introduction-**  **Weather, elements of weather, climate, sun-effects on weather and climate on earth, climate and adaptation** | **Weather climate and animal adaptations(contd..)**  **Polar regions, polar bear, penguin, seal, siberian crane ,tropical rain forest, lion tailed macaque, red –eyed frog ,toucan, Asian elephant, kangaroo rats, fennec fox**  **Text book Exercises** |

Indian School Al Wadi Al Kabir - Syllabus break for november 2015

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| **Class** | **Week1** | **Week2** | **Week3** | **Week4** | **Week 5** |
| Class VII  SCIENCE | **Acids, Bases and Salts.**  **Introduction, Acids, Types of acids, Properties of acids, Uses of acids, Bases, Types of bases, Properties of bases, Uses of bases, Salts.** | **Acids, Bases and Salts.(contd..)**  **Properties of salts, Uses of salts, Neutralisation reactions in everyday life.**  **Text book Exercises**  **Electricity and Simple circuits**  **Introduction, electric circuit,** | **Electricity and Simple circuits(contd..)**  **Components of electric circuit, effects of electric current, heating effect of electric current, Electric fuse, Magnetic effect of electric current, Uses of electromagnets**  **Text book Exercises** | **Reproduction in plants**  **Introduction, Asexual mode of reproduction-Spore formation, fragmentation, Budding, Vegetative propagation** | **Reproduction in plants (contd…)**  **Artificial vegetative propagation-Cutting, grafting, layering and tissue culture, Advantages of vegetative propagation, sexual mode of reproduction, agents of pollination** |

Indian School Al Wadi Al Kabir - Syllabus break up for december 2015

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| **Class** | **Week1** | **Week2** | **Week3** | **Week4** | Week 5 |
| Class VII  SCIENCE | **Reproduction in plants (contd…)**  **agents of pollination**  **Fertilisation, Seed dispersal and agents for seed dispersal germination of seeds**  **Text book Exercises**  **Forest and their conservation-PPT**  **Worksheet** | **Animal fibres**  **Introduction, fibres, wool, animals yielding wool, sheep farming, shearing and processing of wool** | **Animal fibres**  **Properties and quality of wool, Silk, life cycle of silk moth, processing of silk, properties and quality of silk, health hazards**  **Text book Exercises** | Winter Break | Winter break |

Indian School Al Wadi Al Kabir - Syllabus break up for january 2015

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| **Class** | **Week1** | **Week2** | **Week3** | **Week4** | Week 5 |
| Class VII  SCIENCE |  | **Wind and Storm**  **introduction**  **Wind ,air pressure, air currents,** | **Wind and Storm (contd..)**  **Characteristics of wind, thunderstorm, tornado ,cyclone**  **Text book Exercises** | **Light &**  **Associated Phenomena**  **Rectilinear propagation of light, reflection of light, plane mirror, terms used in reflection of light,laws of reflection, real and virtual image** | **Light &**  **Associated Phenomena (contd…)**  **Spherical or curved mirrors, image formation in curved mirrors, practical uses of curved mirrors, lenses, image formation in eye, splitting of white light**  **Text book Exercises** |

Indian School Al Wadi Al Kabir - Syllabus break up for FEBRUARY2015

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| **Class** | **Week1** | **Week2** | **Week3** | **Week4** | **Week 5** |
| **Class VII**  **SCIENCE** | **Soil: A natural resource**  **Introduction, formation of soil, weathering process, composition of soil, soil profile, types of soil, Properties of soil-Texture of soil.** | **Soil: A natural resource (contd..)**  **Percolation rate, Moisture content in the soil, Organisms found in the soil, soil and crops, soil erosion, soil pollution.**  **Text book Exercises** | **Revision** | **Revision** | **Revision** |

Indian School Al Wadi Al Kabir - Syllabus break up for MARCH 2015

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| **Class** | **Week1** | **Week2** | **Week3** | **Week4** | **Week 5** |
| **Class VII**  **SCIENCE** | **Revision** | **SA II** | **SAII** |  |  |