**INDIAN SCHOOL AL WADI AL KABIR**

**DEPARTMENT OF SCIENCE 2016-17**

**WEEKLY PLAN- CLASS-9-PHYSICS**

**Indian School Al Wadi Al Kabir - Syllabus break up for August 2016**

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| **PHYSICS** | **Week1** | **Week2** | **Week3** | **Week4** | **Week 5** |
| **DATE/ INSTRUCTIONAL PERIODS** | **1-4**  **(2)** | **7-11**  **(3)** | **14 - 18**  **(3)** | **21 - 25**  **(3)** | **28 - 31**  **(2)** |

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| IX | **CH-FORCE & LAWS OF MOTION**  Newton’s Second law.  Newton’s III law | Numerical and applications  Of motion  Applications of Newton’s II law and III law of motion.  FA-2- 8th&10th | Conservation of momentum  Numerical&  exercise  FA-2- 16th& 18th. | Work sheet on laws of motion  **CH-GRAVITATION**  Universal law of gravitation.  FA-2- 21st | PRACTICAL-1  To establish a relation between the weight of a wooden block lying on a horizontal plane and the minimum force required to just move it along the plane using a spring balance |

**Indian School Al Wadi Al Kabir - Syllabus break up for September 2016**

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| **PHYSICS** | **Week1** | **Week2** | **Week3** | **Week4** | **Week 5** |
| **DATE/ INSTRUCTIONAL PERIODS** | **1** | **4-8**  **(3)** | **11-15** | **18-29** | **30** |

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| IX | **GRAVITATION**  Acceleration due to gravity | Mass and weight  Free fall  Revision for SA1 | EID HOLIDAYS | SA-I EXAM | SA-I EXAM |

**Indian School Al Wadi Al Kabir - Syllabus break up for October 2016**

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| **PHYSICS** | **Week1** | **Week2** | **Week3** | **Week4** | **Week5** |
| **DATE/ INSTRUCTIONAL PERIODS** | **2-6**  **(3)** | **9-13**  **(3)** | **16-20**  **(3)** | **23-27**  **(3)** | **30-31**  1pd |

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| IX | **GRAVITATION**  Thrust and pressure.  Numerical.  Practical- Pressure exerted by a cuboid. | . Buoyancy.  Archimedes’ principle.  Laws of floatation. | . Practical- Density of solid block.  Relative density.  **FA 3- GROUP ACTIVITY – LAB ACTIVITY** | EXERCISE AND WORKSHEET.  **WORK AND ENERGY**  Introduction. | Work |

**Indian School Al Wadi Al Kabir - Syllabus break up for November 2016**

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|  | **Week1** | **Week2** | **Week3** | **Week4** | **Week 5** |
| **DATE/ INSTRUCTIONAL PERIODS** | **1-3**  **(1)** | **6-10**  **(3)** | **14-17**  **(3)** | **20-24**  **(3)** | **27-30**  (2) |

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| IX | **WORK AND ENERGY**  Work done by a force.  Numerical  Positive, negative and zero work.  FA -3-3rd | Positive, negative and zero work.Energy.  Types of energy.  Kinetic energy.  FA-3-6th, 8th and 10th | Potential Energy.  Numerical.  Pract- Archimedes’ principle.  FA-3- 15th | Law of conservation of energy.  FA 3- Activity-2- PHYSICS  -Matching type worksheet  [Energy transformations] | Numerical |

**Indian School Al Wadi Al Kabir - Syllabus break up for December 2016**

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| **PHYSICS** | **Week1** | **Week2** | **Week3** | **Week4** | **Week 5** |
| **DATE/ INSTRUCTIONAL PERIODS** | **1** | **4-8**  **(3)** | **11-15**  **(3)** | **18-20**  **(3)** |  |

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| IX | **WORK AND ENERGY**  Exercise and worksheet | **SOUND**  Production and propagation of sound.  Longitudinal and transverse wave. Sound requires a medium for propagation. | Characteristics of wave.  Characteristics of wave continued. | Winter Holidays.. | Winter Holidays.. |

**Indian School Al Wadi Al Kabir - Syllabus break up for January 2017**

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| **PHYSICS** | **Week1** | | **Week2** | **Week3** | **Week4** | **Week 5** |
| **DATE/ INSTRUCTIONAL PERIODS** |  |  | | **15-19**  **(3)** | **22-26**  **(3)** | **29-31**  **(2)** |

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| IX | WINTER HOLIDAYS | WINTER HOLIDAYS | .  **SOUND**  Speed of sound.  Relation between frequency and time period.  Relation between frequency velocity and wavelength.  FA-4-16th&18th. | Numerical.  Practical-Reflection of sound.  Practical- Velocity of pulse.  Audible, ultrasonic and infrasonic sounds.  FA-4-22nd,24th | Audible, ultrasonic and infrasonic sounds continued.  FA-4- 29th&31st  **FA 4- Activity-2**  **Numerical based** |

**Indian School Al Wadi Al Kabir - Syllabus break up for February 2017**

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| **PHYSICS** | **Week1** | **Week2** | **Week3** | **Week4** | **Week 5** |
| **DATE/ INSTRUCTIONAL PERIODS** | **1-2**  **(1)** | **5-9**  **(3)pds** | **12-16**  **(3)** | **19-23**  **(3)** | **26-28**  **(3)** |

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| IX | Echo, Sonar . | Numerical..  Worksheet. | Revision for SA 2 | Revision for SA 2 | Revision for SA 2 |