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| Indian School Al Wadi Al Kabir - Syllabus break up for April 2016 | | | | |
| CLASS 11 | WEEK1 | WEEK2 | WEEK3 | WEEK4 |
| PHYSICS |  | Motion in a straight line:Position-time graph, speed and velocity. Elementary concepts of differentiation and intergration for describing motion.Uniform and non-uniform motion, average speed and instantaneous velocity.Position-time graph, speed and velocity. Elementary concepts of differentiation and intergration for describing motion.Uniform and non-uniform motion, average speed and instantaneous velocity | Uniformly Relations for uniformly accelerated motion (graphical treatment) Scalar and vector quantities; Position and displacement vectors, general vectors and theirnotations; equality of vectors,multiplication of vectors by a real number; addition and subtractionof vectors. Relative velocity. | Unit vector; Resolution of a vector in a plane - rectangular components Scalar and Vector product of vectors.Motion in a plane. Cases of uniform velocity and uniform acceleration-projectile motion. Uniform circular motion |

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| Indian School Al Wadi Al Kabir - Syllabus break up for mAY 2016 | | | | |
| CLASS 11 | WEEK1 | WEEK2 | WEEK3 | WEEK4& WEEK 5 |
| PHYSICS | Physical World and Measurement Physics - scope and excitement; nature of physical laws; Physics, technology and society.Need for measurement: Units of measurement; systems of units; SIunits, fundamental and derivedunits. Length, mass and timemeasurements; | accuracy and precision of measuring instruments;errors in measurement; significant figures.Dimensions of physical quantities, dimensional analysis and its applications. Frame of reference, | Laws of Motion Intuitive concept of force. Inertia, Newton’s first law of motion; momentum and Newton’s second law of motion; impulse;Newton’s third law of motion.  **UNIT TEST 1** | Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces. Static and kinetic friction, laws of friction, rolling friction,lubrication.  Dynamics of uniform circular motion:  **UNIT TEST 1** |

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| Indian School Al Wadi Al Kabir - Syllabus break up for JUNE 2016 | | | | |
| CLASS 11 | WEEK1 | WEEK2 | WEEK3 | WEEK4 |
| PHYSICS | Centripetal force, examples of circular motion | (vehicle on a level circular road, vehicle on banked road). | **SUMMER BREAK** | **SUMMER**  **BREAK** |