Indian School Al Wadi Al Kabir - Syllabus break up for

**MARCH 2019**

**SCIENCE -PHYSICS**

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| **CLASS 10** | **WEEK 1** | **WEEK 2** | **WEEK 3** | **WEEK 4** | **WEEK 5** |
| **PHYSICS** |  |  | **13-14 (1DAY)** | **17-21 (3DAYS)** | **24-28 (3 DAYS)** |
|  |  |  | **CH-LIGHT- REFLECTION AND REFRACTION.**  Introduction.  Reflection by plane mirror.  . | Virtual and real images.  Characteristics of image formed by a plane mirror.  Characteristics of image formed by a plane mirror.  Spherical mirrors  Reflection of light by curved surfaces. Spherical mirrors.  Terms associated with spherical mirrors.  Principal focus of concave and convex mirrors. | Image formation by spherical mirrors.  Ray diagrams  Ray diagrams for the image formation by concave and Convex mirrors. |
| **LAB TOPICS:** | | | | | |

Indian School Al Wadi Al Kabir - Syllabus break up for

**APRIL - 2019**

**SCIENCE -PHYSICS**

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| **CLASS 10** | **WEEK 1** | **WEEK 2** | **WEEK 3** | **WEEK 4** | **WEEK 5** |
| **SCIENCE** |  | **7-11 (3 DAYS)** | **14-18(3 DAYS)** | **21-25(2 DAYS)** | **28-30(2 DAYS)** |
|  |  | Uses of concave and convex mirrors.  Sign convention for reflection by spherical mirrors. Mirror Formula and Magnification. Numerical. | Mirror Formula and Magnification.  Numerical  Refraction of light.  Refraction of light through glass slab  Laws of refraction.  The refractive index. | Numerical.  Refraction by spherical lenses. Principal focus of convex and concave lens. Image formation by lenses. | Image formation by lenses. Ray diagrams for the  Image formation by Convex and concave lenses. |
| **LAB TOPICS:** THE FOCAL LENGTH OF CONCAVE MIRROR AND CONVEX LENS. | | | | | |

Indian School Al Wadi Al Kabir - Syllabus break up for

**MAY- 2019**

**SCIENCE -PHYSICS**

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| **CLASS 10** | **WEEK 1** | **WEEK 2** | **WEEK 3** | **WEEK 4** | **WEEK 5** |
| **SCIENCE** | **1-2 (1 DAY)** | **5-9 (3 DAYS)** | **12-16 (3 DAYS)** | **19-23(3 DAYS)** | **26-30(3 DAYS)** |
|  | Lens formula and magnification.  Numerical. | Power of the lens  Exercise and worksheet.  **CH- HUMAN EYE AND COLOURFUL WORLD.**  Human eye. Its parts and functions. Power of accommodation. | Power of accommodation.  Defects of vision and their correction.  Numerical on Defects of vision.  PREMID TERM EXAM | Refraction through a prism.  Refraction through a prism.  Dispersion of white light by a glass prism.  **PRE-MID TERM** | Atmospheric refraction and its application.  EXERCISE AND WORKSHEET.  **PRE-MID TERM** |
| **LAB TOPICS:**  2.TO TRACE THE PATH OF THE RAYS OF LIGHT THROUGH GLASS SLAB.  3.TO FIND THE IMAGE DISTANCE FOR VARYING OBJECT DISTANCES IN CASE OF CONVEX LENS AND DRAW THE CORRESPONDING RAY DIAGRAMS. | | | | | |

Prepared by the class coordinator: Ms. Anu Mathew HOD - SCIENCE