IB Physics

Forces

Chapter 4 Syllabus

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| Block | | In Class: | Due on this class: | |
| 1  Oct  23/24 | | **DI**-Stupid Teacher Tricks  **GW**-Force, Net force and weight  **DI**-More Than One Force | **VF 4A - Newton's Laws**  **VF 4B - Simple F = ma**  **VF 4C - Mass and Weight** | |
| 2  Oct  28/29 | | **DI**-More Stupid Elevator Tricks  **GW**-Vertical Acceleration  **GW**-FA4.2-Vertical Acceleration | **VF 4D - More than one force**  **VF 4E - Vertical Acceleration problems**  Turn in FA4.1 | |
| 3  Oct 30 /Nov 4 | | **SA4.2-Vertical Acceleration (first 30 minutes)**  **VF**-4F Calculating the force of friction  **DI**-Demos/Solving Friction problems | Turn in FA4.2 | |
| 3 ¾  Oct 31  /Nov 1 | | **GW**-Friction problems  **GW**-FA4.3 - Friction  **DI**-Forces on inclined planes (4H) (last 10 minutes) | **VF 4F - Force of Friction**  **VF 4G - Horizontal acceleration with Friction** | |
| 4  Nov  5/6 | | **Demonstrations involving Magic and Projections of images** | **Bring a ceramic mug** | |
| 5  Nov  7/12 | | **SA4.3-Friction (First 30 minutes)**  **IW**-Inclined Planes  **GW**-Inclined Planes  **DI**-Force Lab Explained | **(VF 4H - forces along an inclined plane)**  **VF 4I - Inclined Plane Problems**  Turn in FA4.3 | |
| 6  Nov  13/14 | | **GW**-Inclined Planes  **GW**-Force Lab |  | |
| 7  Nov  15/18 | | **SA4.4-Inclined Planes (First 30 minutes)**  **VF**-4J Pulleys  **GW** Pulleys FA4.5  **GW** force Lab | **VF 4J - Pulleys**  Turn in FA4.4  Turn in FA4.5 | |
| Nov  19/20 | | **Gravity and circular motion!!!!!** | Turn In Force Lab  **VF 5A, 5B** | |
| Assignments   * 1 Lab:   + Student designed lab on force (groups of 2) /40 pts * 4 Formative/ 3 Summative Assessments:   + 4.2 – Vertical Dynamics   + 4.3 – Friction   + 4.4 – Inclined Planes   + 4.5 – Pulleys (no summative) | | | Handouts: | | \*Handouts:  Syllabus-Forces  FA 4.2/FA 4.3/FA 4.4/FA 4.5  Worksheet-NetForceAndFriction  NoteGuide-InclinedPlanesExample  Worksheet-PlanesAndEquil |