IB Physics

Forces

Chapter 4 Syllabus

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| Block | In Class: | Due on this class: |
| 1Oct 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** |
| 2Oct 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 |
| 3Oct 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 ¾Oct 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** |
| 4Nov 5/6 | **Demonstrations involving Magic and Projections of images** | **Bring a ceramic mug** |
| 5Nov 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 |
| 6Nov 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 |
| Nov19/20 | **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-ForcesFA 4.2/FA 4.3/FA 4.4/FA 4.5Worksheet-NetForceAndFrictionNoteGuide-InclinedPlanesExampleWorksheet-PlanesAndEquil |