IB Physics

Forces

Chapter 4 Syllabus

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| --- | --- | --- | --- |
| Block | In Class: | Due on this class: | If you miss this class: |
| 1Nov 2/6 | **DI**-Stupid Teacher Tricks**GW**-Force, Net force and weight**DI**-More Than One Force | **VF 4A, 4B, 4C** | **Watch: Videos 4A, 4B, 4C****Read:** 4.1-6 |
| 2Nov 7/8 | **DI**-More Stupid Elevator Tricks **GW**-Vertical Acceleration**GW**-FA4.2-Vertical Acceleration | **VF 4E** | **Watch: Videos 4D, 4E** |
| 3Nov 9/13 | **SA4.2-Vertical Acceleration (first 30 minutes)****VF**-4F Calculating the force of friction**DI**-Demos/Solving Friction problems | Turn in FA4.2 | **Watch: Videos 4F, 4G****Read:** 4.7 |
| 4Nov 14/15 | **GW**-Friction problems**GW**-FA4.3 - Friction**DI**-Forces on inclined planes (last 10 minutes) | **(VF 4G?)** | **Watch: Videos 4G, 4H****Read:** 4.8 |
| 5Nov 16/19 | **SA4.3-Friction (First 30 minutes)****IW**-Inclined Planes**GW**-Inclined Planes | **VF 4I**Turn in FA4.3 | **Watch: Videos 4I** |
| 6Nov 20/21 | **DI**-Force Lab Explained**GW**-Inclined Planes**GW**-Force Lab |  |  |
| 7Nov 26/27 | **SA4.4-Inclined Planes (First 30 minutes)****VF**-4J Pulleys**GW** Pulleys FA4.5 | Turn in FA4.4 | **Watch: Videos 4J** |
| 8Nov 28/29 | **GW**-Force Lab, Pulleys? | Turn in FA4.5 |  |
| Nov 30/ Dec 3 | **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 |