IB Physics

Chapter 3 Syllabus: Two Dimensional Kinematics

Vectors and Projectile Motion

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| Block | In Class | Due on this class: | | | | If you miss this class: | |
| 1  **Oct**  **4/5** | **DI**-Vector Components  Work on Labs or VFs |  | | | | **Watch:** Videos 3A | |
| 2 Oct8/9 | **GW**-Vector Sheet  **GW**-FA3.1  **GW**-Finish up chapter 2 labs? | **VF 3C, 3D, 3E (Vector operations)**  Turn In: Moving Plots, Air Rocket, Plot Matching labs | | | | **Watch:** Videos 3C, 3D, 3E | |
| 3 Oct10/11 | **SA3.1-Vectors (first 30 minutes)**  **VF**-3F Basic Cliff Problems  **DI**-Demos and Unwise (last 40 minutes) | Turn In: FA 3.1 | | | | **Watch:** Videos 3F | |
| 4  **Oct**  **15/16** | **GW**-Cliff Quizlette  Demos-Projectile Motion | **VF 3G Complex Cliff Problems** | | | | **Watch:** Videos 3G | |
| 5 Oct17/18 | Warmup-Cliff Assessment.  **GW**-Arc Quizlette  Demos-Boat Crossing River | **VF 3H Arc Problems** | | | | **Watch:** Videos 3H | |
| 6  **Oct**  **19/22** | **SA3.2-Cliff Problems (first 30 minutes)**  **VF**-3I The Range Equation  **DI**-Demos and the Vernier Lab  **GW**-Vernier lab | **VF 3J Boat Crossing River Problems**  Turn In: FA 3.2 | | | | **Watch:** Videos 3I, 3J | |
| 7Oct23/24 | **SA3.3-Arc Problems (first 30 minutes)**  **GW**-Vernier Lab | Turn in: FA3.3 | | | |  | |
| 8  **Oct**  **29/30** | **Air Rocket Competition (Outside)**  GW-Vernier Lab | Turn in: Vernier Lab | | | |  | |
| 83/­4Oct 31/Nov 1 | Demonstrations involving flame and optics  slideshowmusicdancingmagictricksandcelebrityimpersonationsitisnotaparty | **Bring:** A ceramic mug!! | | | |  | |
| **Nov**  **2/6** | **NEWTON'S LAWS** | **VF 4A, 4B, 4C** | | | |  | |
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| Assignments   * 2 Labs:   + Vernier Trajectories (Simulation on computer) /30 pts   + Rocket Competition (no writeup) * 2 Formative assignments   + Cliff Quizlette /20 pts   + Arc Quizlette / 20 pts * 3 Summative/4 Formative assessments   + 3.1 – Vectors   + 3.2 – Cliff Problems   + 3.3 – Arc Trajectories   + 3.4 – Boat Crossing River (no summative) | | | | | \*Handouts: | | |
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