**IB Physics**

Linear Kinematics (Chapter 2) Syllabus

Text: *Physics* 6th edition by Douglas Giancoli

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| Block | In Class  | Due on this class | If you miss this class: |
| 1**Sept** **5/6** | -Hand out Syllabus/Course Policy-Speed Trap lab outside**DI**-Calculating Speed/Sig Figs-Check out textbooks?-Information card-Video Flip 1B-1E/Noteguide | Bring a calculator, a writing utensil, and paper**Turn in:** Completed information card | -Get Speed Trap data from someone-Do the lab**Watch:** Videos 1A (sig figs?) |
| 2**Sept** **7/10** | -Seating in Quad Pods-Speed Trap Example**GW**-Uncertainty worksheet, Speed Trap Lab, FA 1.1 | **Video - Tour of the website**(I will email you a link)**VF: 1A Sig Figs (optional)****VF: 1B-1E Uncertainty**Practice: Uncertainty Worksheet | **Watch:** Video Tour**Watch:** Videos 1B-1E**Read:** 2.1-5 |
| 3**Sept****11/12**  | **SA 1.1 Uncertainty (first 30? minutes)****VF**-2C-Acceleration**DI**-Vector Nature of Velocity | **Turn in:** FA 1.1 | Make up the SA 1.1**Watch:** Videos 2C |
| 4**Sept** **13/14** | **DI**-Example Kinematics**GW**-Solving Kinematics Problems P2.3**GW**-FA 2.3-suvat flashcards/Data Packets | **VF: 2D Kinematics** Practice: Practice for 2.3 | **Watch:** Videos 2D |
| 5Sept **17/18** | **DI**-Demos for Free Fall**GW**-Solving Free Fall problems | **VF: 2H Free Fall Problems**Practice: Practice for 2.3 | **Watch:** Videos 2H**Read:** 2.7 |
| 6**Sept** **19/20** | **SA 2.3-Kinematics (first 30 minutes)****VF**-2F-Displacement Graphs**DI**-Tangent Lines for slopes | **Turn in:** FA 2.3Practice: Practice for 2.3 | Make up the SA 2.3**Watch:** Videos 2F**Read:** 2.8 |
| 7**Sept** **21/25** | **GW**-Work on Graphs of motion-Demo of Plot Matching lab**Lab**-Get tapes for Moving Plots**DI**-How to analyze your tapes | **VF: 2G Velocity Graphs**Practice: Practice for 2.4 | **Watch:** Videos 2GGet a demo tape to analyze |
| 8**Sept** **26/27** | **Lab**-Air Rocket data gathering**GW**-Labs | Practice: Practice for 2.4 | Get the Rocket lab data |
| 9**Sept 28/****Oct 1** | **SA 2.4-Free Fall (first 30 minutes)****GW**-Labs | **Turn in:** FA 2.4 | Make up the SA 2.4 |
| 10**Oct****2/3** | **GW**-Labs |  |  |
| 1**Oct****4/5** | **DI**-Vector Components**GW**-Labs or VF |  |  |
| 2**Oct****8/9** | More on Vectors! | **VF: 3C, 3D, 3E****Turn in:** Moving Plots lab**Turn in:** Air Rocket lab |  |

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| Assignments* 4 Labs:
	+ Speed Trap Lab – done the first day of class, written up the second day. No handout
	+ Air Rocket Lab-outdoors
	+ Moving Plots Lab – tape timer dots thingy
	+ Plot Matching Lab – matching the plots on the computer/written note saying you did it. No handout
* 3 Formative/Summative Assessments:
	+ 1.1 Propagation of Uncertainty
	+ 2.3 Basic Kinematics
	+ 2.4 Free Fall Kinematics
 | Handouts  |