**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 |
| **1****Sept** **4/5** | -Hand out Syllabus/Course Policy-Speed Trap lab outside**DI**-Calculating Speed/Sig Figs-Information card-Video Flip 1B-1E/Noteguide | Bring a calculator, a writing utensil, and paper**Turn in:** Completed information card |
| **2****Sept** **6/9** | -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 |
| **3****Sept****10/11** | **SA 1.1 Uncertainty (first 30 minutes)****VF**-2C-Acceleration**DI**-Vector Nature of Velocity | **Turn in:** FA 1.1 |
| **4****Sept** **12/13** | **DI**-Example Kinematics**GW**-Solving Kinematics Problems P2.3**GW**-FA 2.3-**suvat** flashcards/Data Packets/names on calculators! | **VF: 2C, 2D Kinematics** Practice: Practice for 2.3 |
| **5**Sept **16/17** | **DI**-Demos for Free Fall**GW**-Solving Free Fall problems**Lab**-Get tapes for Moving Plots**DI**-How to analyze your tapes | **VF: 2H Free Fall Problems**Practice: Practice for 2.3 |
| **6****Sept** **18/19** | **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 |
| **7****Sept** **20/23** | **GW**-Work on Graphs of motion-Demo of Plot Matching lab | **VF: 2G Velocity Graphs**Practice: Practice for 2.4 |
| **8****Sept** **24/25** | **Lab**-Air Rocket data gathering**GW**-Labs | Practice: Practice for 2.4 |
| **9****Sept** **26/27** | **SA 2.4-Free Fall (first 30 minutes)****GW**-Labs | **Turn in:** FA 2.4 |
| **1****Sept 30/****Oct 1** | **DI**-Vector Components**GW**-Labs or VF |  |
| **2****Oct****2/3** | 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  |