**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 2.3  Practice: 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 |