**Physics G**

Two-Dimensional Motion and Vectors Syllabus (Chapter 3)

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| Block | In Class: | Due on this class: |
| 1  Oct  28/29 | **GW-**Where Oh Where am I????  **DI**- **3AB** - Finding Angle Components |  |
| 1 ¾  Oct 31/Nov 1 | **Demonstrations involving cider and magic** | **Bring a Ceramic Mug** |
| 2  Oct 30/Nov 4 | **DI** - More Components  **DI** - Making the Drawrings for VC to AM  **GW**-Vector Quizlette | **VF 3C - Adding VC**  **VF 3D - VC to AM**  **VF 3E - AM + AM** |
| 3  Nov  5/6 | **GW**-Vector Quizlette  **GW**-FA3.1 |  |
| 4  Nov  7/12 | **SA3.1-Vectors (First 30 minutes)**  **VF**-**3F**-Basic Projectile Motion  **DI**-Demos and unwise | Turn in FA3.1  Turn in Vector Quizlette |
| 5  Nov  13/14 | **GW**-Cliff Quizlette | **VF 3G - Cliff Problems** |
| 6  Nov  15/18 | **GW**-Cliff Quizlette  **GW**-FA3.2  **GW**-Projectile PHET Simulation: Cliff | Turn in PHET: Cliff |
| 7  Nov  19/20 | **SA3.2-Cliff Problems (First 30 minutes)**  **VF**-3H Arc problems  **DI**-Demos | Turn in FA3.2  Turn in Cliff Quizlette |
| 8  Nov  21/22 | **GW**-Arc Quizlette  **GW**-FA3.3 Arc Problems  **GW**-Projectile PHET Simulation: Range | **VF 3H - Arc Problems, 3I - The Range Equation**  Turn in PHET: Arc |
| 9  Dec  2/3 | **SA3.3-Arc Problems (First 30 minutes)**  **VF**-3J Boat Crossing River  **DI**-Boat x River Demo | Turn in FA3.3  Turn in Arc Quizlette |
| 10  Dec  4/5 | **GW**-Boat x River Quizlette  **GW**-FA3.4 Boat x River | **VF 3J - Boat Crossing River** |
| 11  Dec  6/9 | **FA3.4-Boat x River (First 30 minutes)**  **VF**-Marble Lab  **DI**-Marble Lab Setup Demo | Turn in FA3.4  Turn in Boat x River Quizlette |
| 12  Dec  10/11 | **GW**-Marble Lab  **VF-**4A, 4B, 4C | Turn In Marble Lab |
| Dec 12/13 | **Newton's Laws!!!!** | **VF 4A, 4B, 4C** |
| Assignments:   * 4 Labs:   + *Where am I?* lab – Drawing in class on graph paper /10 pts   + *Cliff PHET* – Computer simulation. /20 pts   + *Arc PHET* – Computer simulation. /20 pts   + *Trajectory of a Marble* lab – In class – hit a target with a marble. /30 pts * 4 Quizlettes (done in class as a group)   + Vector QL (10 pts)   + Cliff QL (10 pts)   + Arc QL (10pts)   + Boat x River QL (10 pts) * 4 Formative/ Summative assessments:   + 3.1 - Adding Two Vectors   + 3.2 - Cliff Problems   + 3.3 - Arc Problems   + 3.4 - Boat Crossing River | | Handouts: |