**Physics G - Re-work arc part**

Two-Dimensional Motion and Vectors Syllabus

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| Block | Class  | Due on this class |
| 1Nov 4/5  | -Introduction to vectors "Where am I?"-Rules of vectors-Finding vector components  |  |
| 2Nov 6/9 | -Making angle magnitude vectors-Adding vector component vectors | **Read:** 3.1-2[[1]](#footnote-1)**Practice:** VS: 1-6 |
| 3Nov 10/16 | -Adding two angle magnitude vectors -Principles of projectile motion-Simple Cliff Problem solved-Explain classroom flip/noteguide | **Practice:** VS: 7-14 |
| 4Nov 17/18 | -Work in groups on Cliff Quizlette-Work on 2DM: 1,2,3-Explain classroom flip/noteguide-Hand out FA 3.1 | **Video Flip: Cliff Problem (G)[[2]](#footnote-2)****Practice:** VS: 15,16**Read:** 3.3**Turn in:** Cliff Quizlette |
| 5Nov 19/20 | -Arc Trajectories Example-Work in groups on Arc Quizlette-Work on 2DM: 4,5,6 | **Video Flip: Arc Problem (H) and Range Equation (I)** |
| 6Nov 23/24 | -Vernier #3 quandary – how far will it land?-Finish Arc Quizlette-Deriving the Range Equation-Projectile motion demos | **Practice:** 2DM: 1-6**Turn in:** Arc Quizlette |
| 7Nov 25/30 | -Solving boat crossing river problems-Work in groups on 2DM 7- 9, SO2DM 5-7**-Summative Assessment:****-SA 3.1 Vector Addition** | **Practice:** 2DM: 10-15**Read:** 3.4**Turn in:** FA 3.1  |
| 8Dec 1/2 | -Vernier #1 quandary-Introduction of *Vernier Trajectories* lab-Demonstration of *Trajectory of a Marble* lab-Work time for labs | **Video Flip: Trajectory of a Marble lab****Practice:** 2DM: 7-9 |
| 9Dec 3/4 | -Hand out FA 3.2, 3.3, 3.4-Posers from Interactive Physics-In class time to work on labs |  **Practice:** SO2DM: 1,3 |
| 10Dec 7/8 |  -In class time to work on labs | **Practice:** SO2DM: 2-7 |
| 11Dec 9/10 | -Formative Assessments on:-3.2 Cliff Problems-3.3 Arc Problems-3.4 Boat Crossing River | **Practice:** P3D: 1,3 P3E: 1,3,5  |
| 12Dec 11/14 | **-Summative Assessments:****-SA 3.2 Cliff Problems****-SA 3.3 Arc Problems****-SA 3.4 Boat Crossing River** | **Turn in:** *Vernier Trajectories* lab**Turn in:** *Trajectory of a Marble* lab**Turn in:** FA 3.2, 3.3, 3.4 |
| Assignments:* 3 Labs:
	+ *Where am I?* lab – Drawing in class on graph paper /10 pts
	+ *Vernier Trajectories* lab – Computer simulation. /30 pts
	+ *Trajectory of a Marble* lab – In class – hit a target with a marble. /20 pts
* 2 Quizlettes – group work on problems (10 formative points each)
* 4 Formative/ Summative assessments:
	+ 3.1 - Adding Two Vectors
	+ 3.2 - Cliff Problems
	+ 3.3 - Arc Problems
	+ 3.4 - Boat Crossing River
 | Handouts:Syllabus-2DMotionAndVectorsWorksheet-Vector SheetWorksheet-2DimensionalMotionLab-VernierTrajectoriesLab-TrajectoryOfAMarble Noteguide-CliffNoteguide-ArcWorksheet-SonOf2DQuizlette-CliffQuizlette-ArcFA 3.1FA 3.2FA 3.3FA 3.4 |

1. Chapter 3 starts on page 84 [↑](#footnote-ref-1)
2. Video Flip means that you must watch the video on line. I will not be teaching the material in class, the only way you will learn it is to view the video… [↑](#footnote-ref-2)