**Physics G**

Two-Dimensional Motion and Vectors Syllabus (Chapter 3)

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| Block | In Class:  | Due on this class: | If you miss this class: |
| 1Nov 7/8 | -Introduction to vectors "Where am I?"-Rules of vectors-Finding vector components  |  | **Read:** 3.1[[1]](#footnote-1)3.2**Watch:** Videos B |
| 2Nov 13/14 | -Making angle magnitude vectors-Adding vector component vectors-Adding two angle magnitude vectors  | **Check:** VS: 1-4 | **Watch:** Videos C, D**Read:** 3.2 |
| 3Nov 15/16 | -Work on Vector QL -Work on VS 15,16-Hand out FA 3.1 | **Check:** VS: 5-14**Turn in:** Vector QL  | **Watch:** Videos for FA 3.1**Read:** 3.3 |
| 4Nov 17/20 | -Principles of projectile motion-Simple Cliff Problem solved **-Summative Assessment:****-SA 3.1 Vector Addition**  | **Turn in:** VS: 1-16**Turn in:** FA 3.1  | **Watch:** Videos F, G**Read:** 3.3 |
| 5Nov 21/22 | -Solving Cliff problems |  | **Watch:** Videos F, G |
| 6Nov 27/28 | -Cliff Quizlette-Work on 3.2 practice | **Check:** P3.2 #1**Turn in:** Cliff Quizlette | **Watch:** Videos F, G |
| 7Nov 29/30 | -Solving Arc problems-The Range Equation part II | **Check:** P3.2 #2-4**Turn in:** P3.2 #1-4 | **Watch:** Videos H**Watch:** Video I |
| 8Dec1/4 | -Work in groups on Arc QL-Work on 3.3 practice-Projectile Motion Demos | **Check:** P3.3 #1, 6a, 7a**Turn in:** Arc Quizlette | **Watch:** Videos H |
| 9Dec 5/6 | -Solving boat crossing river problems-Boat Crossing River QL-Work 3.4 practice  | **Check:** P3.3 #2-4, 6bcd, 7bcd**Turn in:** P3.3 #1-4, 6bcd, 7bcd**Turn in:** Boat crossing river QL  | **Watch:** Video J**Read:** 3.4 |
| 10Dec 7/8 | -Introduction of *Vernier Trajectories* lab-Demonstration of *Trajectory of a Marble* lab-Hand out FA 3.2, 3.3, 3.4-Work time for labs and FAs | **Check:** P3.4 #1**Video Flip:** Trajectory of a Marble lab | **Read:** 3.4**Watch:** Video J**Watch:** Marble Lab Videos |
| 11Dec 11/12 | -Work time for labs and FAs-Reminder about HW review for next time | **Check:** P3.4 #2-4**Turn in:** Practice 3.4#1-4 | **Watch:** Video J**Watch:** Marble Lab Videos |
| 12Dec 13/14 | -Work time for labs and FAs | **Check:** P3.2 #5, P3.3#5, 6f, 7f, P3.4#5**Turn in:** P3.2 #5, P3.3#5, 6f, 7f, P3.4#5 | You might need to come in and make up the lab before or after school |
| 13Dec 15/Jan 2 | **-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 | **You will need to come in and make up the assessments on a makeup day** |
|  | Newton's Laws!!!!!! |  |  |
| 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
* 4 Quizlettes (done in class as a group)
	+ Vector QL (20 pts)
	+ Cliff QL (20 pts)
	+ Arc QL (20pts)
	+ Boat x River QL (20 pts)
* 5 Homework assignments
	+ VS 1-16 (32 pts)
	+ Practice 3.2 1-4 (32 pts)
	+ Practice 3.3 1-4 6a-d, 7a-d (48 pts)
	+ Practice 3.4 1-4 (40 pts)
	+ Review: P3.2 #5, P3.3#5, 6f, 7f, P3.4#5 (34 pts)
* 4 Formative/ Summative assessments:
	+ 3.1 - Adding Two Vectors
	+ 3.2 - Cliff Problems
	+ 3.3 - Arc Problems
	+ 3.4 - Boat Crossing River
 | Handouts: |

1. Chapter 3 starts on page 84 [↑](#footnote-ref-1)