**Physics G**

Force

(Chapter 4 Syllabus)

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| Block | Class  | Due on this class  |
| 1Dec 13/14 | •Welcome to Physics!!•Aristotle and Galileo•Newton’s laws L/D•Newton's second law•Assign *Newton's Second Law* | **Read:** 4.1-3 |
| 2**Dec 17/18** | •The difference between mass and weight•Racetrack simulation game•In class time to work on:*Newton's Second Law* 7-12Racetrack Simulation | **Check:** NSL: 1-6**Read:** 4.4-weight |
| 3**Dec 19/20** | •Solving problems where there's more than one force:•Work in Quiz groups on *Net Force* 3, 5, 4, 10, 6, 11 | **Video Flip: Net Force[[1]](#footnote-2)****Check:** NSL: 7-12 |
| 4**Dec 21/ Jan 7** | •More Work on Net Force 8, 9, 12-15 | **Check:** NF: 3, 5, 4, 10, 6, 11 |
| 5**Jan 8/9** | •Friction L/D•Static vs Kinetic Friction•Work on *Friction* 1-6•**Quiz** *Newton's Second Law* (Last 25 min) | **Check:** NF: 8, 9, 12-15**Turn In:** *Newton's Second Law***Read:** 4.4-friction**Turn In:** *Net force* 3-15 |
| 6**Jan 10/11** | •Solving problems with friction•Work in quiz groups on *Friction* 7-12 | **Video Flip: Friction Problems****Check:** F: 1-6 |
| 7**Jan 14/15** | •**PreQuiz on Net Force and Friction** •Intro of *Friction lab* •Work on lab or problems | **Check:** F: 7-12 |
| 8**Jan 16/17** | •**SkillSet on Net Force and Friction**•Lab/problem time | **Check:** F: 13, 14 |
| 9**Jan 18/22** | •Lab/Problem time•Mockery of Force test/Final | **Check:** F: 15**Turn In:** Racetrack Simulations |
| 10**Finals** | •**Test on Force/Semester Final** | **Turn In:** *Friction***Turn In:** *Force of Friction* lab  |
| 11**Jan 29/30** | •Tests Back•Why it is important to consider the weight of a barrel of bricks. |  |
| Assignments:* *Newton’s Second Law* (12) + 2 stamps /28 pts
* *Net Force 3-15* (13)+ 2 stamps /30 pts
* *Friction* (15) +4 stamps /38 pts
* 2 Labs:
	+ *Racetrack* lab – In Class Race with Other People /15 pts
	+ *Force of Friction* lab – Data and Graphs and questions /45 pts
* 1 Quiz: Quiz on Newton’s Second Law /10 Quiz Pts
* 1 PreQuiz: Net Force and Friction /10 Quiz pts
* 1 SkillSet: Net Force and Friction /10Test pts
* 1 Test /Final on Force
 | Handouts: This Syllabus Worksheet-NewtonsSecondLaw Worksheet-NetForce Worksheet-Friction PreQuiz-NetForceAndFriction Lab-ForceOfFriction |

1. Video Flip means you must watch videos before class, so you can learn how to solve the problems, and then you will do the homework in class with my help. [↑](#footnote-ref-2)