**Physics G**

Force

(Chapter 4 Syllabus)

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| Block | Class | Due on this class | |
| 1 Dec 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* 7-12  Racetrack 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)