**Physics G**

Force

(Chapter 4 Syllabus)

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| Block | Class  | Due on this class  |
| 1Dec 11/14 | -Welcome to Physics!!-Aristotle and Galileo-Newton’s laws L/D-Newton's second law-Hand out Practice for A4.1 | **Read:** 4.1-3 |
| 2Dec 15/16 | -Racetrack simulation game-In class time to work on:4.1 Newton's Second Law QuizletteRacetrack Simulation | **Practice:** A4.1**Read:** 4.4-weight |
| 3Dec 17/18 | -The difference between mass and weight-Net Force Parts 1 and 2-Hand out Practice for A4.2-Work on Net Force practice problems | **Practice:** A4.1**Turn in:** 4.1 Newton's Second Law Quizlette |
| 4Jan 4/5 | -In class time to work on:4.2 Vertical Acceleration QuizletteRacetrack Simulation  | **Practice:** A4.2**Read:** 4.4-friction |
| 5Jan 6/7 | -Friction-Friction and acceleration -Hand out FA4.1, 4.2, 4.3-Hand out Practice for A4.3 | **Turn in:** 4.2 Vertical Acceleration Quizlette |
| 6Jan 8/11 | -In class time to work on:4.3 Friction QuizletteRacetrack Simulation FA:4.1, 4.2, 4.3 | **Practice:** A4.3 |
| 7Jan 12/13 | **-Summative Assessments:****-SA 4.1 - Newton's Second Law****-SA 4.2 - Vertical acceleration****-SA 4.3 - Friction** | **Practice:** A4.1, A4.2, A4.2**Turn in:** 4.3 Friction Quizlette**Turn in:** FA4.1, 4.2, 4.3 |
| 8Jan 14/15 | -Friction Lab Explained (Groups of 2)-Lab Time:-Friction lab-Racetrack simulation |  |
| 9Jan 19/20 | -Lab Time:-Friction lab-Racetrack simulation | **Turn In:** Racetrack Simulations **(3 per person)****Turn In:** *Force of Friction* lab (Groups of 2) |

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| Assignments:* 2 Labs:
	+ *Racetrack* lab – In Class Race with Other People /15 pts
	+ *Force of Friction* lab – Data and Graphs and questions /45 pts
* 3 in-class Quizlettes - group work (10 pts each)
	+ 4.1 Newton's Second Law Quizlette
	+ 4.2 Vertical Acceleration Quizlette
	+ 4.3 Friction Quizlette
* 3 Formative/Summative Assessments:
	+ 4.1 - Newton's Second Law
	+ 4.2 - Vertical acceleration
	+ 4.3 - Friction
 | Handouts: This Syllabus Worksheet-NewtonsSecondLaw4.1 Worksheet-VerticalAcceleration4.2 Worksheet-Friction4.3 Lab-ForceOfFriction FA4.1 FA4.2 FA4.3 |