**Physics G**

Force

(Chapter 4 Syllabus)

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| Block | Class | Due on this class |
| 1 Dec 11/12 | -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 15/16 | -The difference between mass and weight  -Racetrack simulation game  -In class time to work on:  *Newton's Second Law*  Racetrack Simulation | **Practice:** NSL, Practice 4.1  **Read:** 4.4-weight |
| 3  Dec 17/18 | -Net Force Parts 1 and 2  -Work on Net Force practice problems | **Practice:** Practice 4.2 |
| 4  Dec 19/  Jan 5 | -Friction  -Friction and acceleration | **Practice:** Practice 4.3  **Read:** 4.4-friction |
| 5  Jan 6/7 | -Work on in class:  -4.2 - Vertical Acceleration  -4.3 - Friction | **Practice:** |
| 6  Jan 8/9 | -Work on Formative Assessments: 4.1, 4.2, 4.3 | **Practice:** F: 1-8 |
| 7  Jan 12/13 | **-Summative Assessments:**  **-SA 4.1 - Newton's Second Law**  **-SA 4.2 - Vertical acceleration**  **-SA 4.3 - Friction** | **Practice:** F: 9, 10, 11 |
| 8  Jan 14/15 | -Friction Lab Explained  -Lab Time:  -Friction lab  -Racetrack simulation | **Practice:** F: 12, 13 |
| 9  Jan 16/20 | -Lab Time:  -Friction lab  -Racetrack simulation | **Practice:** F: 14, 15  **Turn In:** Racetrack Simulations  **Turn In:** *Force of Friction* lab |

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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 Formative/Summative Assessments:   + 4.1 - Newton's Second Law   + 4.2 - Vertical acceleration   + 4.3 - Friction | Handouts:  This Syllabus  Worksheet-NewtonsSecondLaw  Worksheet-NetForce  Worksheet-Friction  Worksheet-NewtonsSecondLaw4.1  Worksheet-VerticalAcceleration4.2  Worksheet-Friction4.3  Lab-ForceOfFriction |