**Physics G**

Force

(Chapter 4 Syllabus)

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| Block | Class | Due on this class |
| 1 Dec 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 |
| 2  Dec 15/16 | -Racetrack simulation game  -In class time to work on:  4.1 Newton's Second Law Quizlette  Racetrack Simulation | **Practice:** A4.1  **Read:** 4.4-weight |
| 3  Dec 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 |
| 4  Jan 4/5 | -In class time to work on:  4.2 Vertical Acceleration Quizlette  Racetrack Simulation | **Practice:** A4.2  **Read:** 4.4-friction |
| 5  Jan 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 |
| 6  Jan 8/11 | -In class time to work on:  4.3 Friction Quizlette  Racetrack Simulation  FA:4.1, 4.2, 4.3 | **Practice:** A4.3 |
| 7  Jan 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 |
| 8  Jan 14/15 | -Friction Lab Explained (Groups of 2)  -Lab Time:  -Friction lab  -Racetrack simulation |  |
| 9  Jan 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 |