**Physics G**

Force

(Chapter 4 Syllabus)

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| Block | In Class | Due on this class | If you miss this class |
| 1 Dec13/14 | -Hand out Practice for A4.1  -Welcome to Physics!!  -Aristotle and Galileo  -Newton’s laws L/D  -Newton's second law  -The difference between mass and weight |  | **Read:** 4.1-3  **Watch:** Videos A, B, C |
| 2  Dec  15/16 | -Racetrack simulation game  -In class time to work on:  4.1 Newton's Second Law Quizlette  Racetrack Simulation | **Turn in:** 4.1 Newton's Second Law Quizlette | **Read:** 4.4-weight |
| 3  Jan  3/4 | -Hand out Practice for A4.2  -Net Force Parts 1 and 2  -Work on Net Force practice problems | **Check/Turn in:** Practice 4.1 #1, 2 | **Watch:** Videos D, E |
| 4  Jan  5/6 | -In class time to work on:  4.2 Vertical Acceleration Quizlette  Racetrack Simulation | **Turn in:** 4.2 Vertical Acceleration Quizlette | **Read:** 4.4-friction  **Watch:** Videos D, E |
| 5  Jan  9/10 | -Hand out Practice for A4.3  -Friction  -Friction and acceleration | **Check/Turn in:** Practice 4.2 #1, 2 | **Watch:** Videos F,G |
| 6  Jan  11/12 | -In class time to work on:  4.3 Friction Quizlette  Racetrack Simulation | **Turn in:** 4.3 Friction Quizlette | **Watch:** Videos F,G |
| 7  Jan  13/17 | -In class time to work on:  Racetrack Simulation  FA:4.1, 4.2, 4.3 | **Check/Turn in:** Practice 4.3 #1, 2 |  |
| 8  Jan  18/19 | **-Summative Assessments:**  **-SA 4.1 - Newton's Second Law**  **-SA 4.2 - Vertical acceleration**  **-SA 4.3 - Friction** | **Turn in:** FA4.1, 4.2, 4.3 |  |
| 9  Jan  20/23 | -Friction Lab Explained (Groups of 2)  -Lab Time:  -Friction lab  -Racetrack simulation |  | **Watch:** Force of Friction videos  Come in before or after school to make up the lab |
| 10  Jan  24/25 | -Lab Time:  -Friction lab  -Racetrack simulation | **Turn In:** Racetrack Simulations **(3 per person)**  **Turn In:** *Force of Friction* lab (Groups of 2) | **Watch:** Force of Friction videos  Come in before or after school to make up the lab |
|  | **Work and Energy!!!!!!!!!** |  |  |

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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 (20 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: |