Physics G

Momentum

(Chapter 6 Syllabus)

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| Block | Class | Due on this class | |
| 1  **Feb 23/24** | -Momentum Exploration  -Momentum  -Impulse as a change in momentum  -Rocket Propulsion | Your Smiling Face  **Read:** 6-1 | |
| 2  **Feb 25/26** | -More Rocket Propulsion  -Mass burn rate  -Initial and final acceleration | **Practice:** I&M:1-10+P6A:1(2482 kg m/s),2(121.05 kgm /s), 3(3:46 m/s East)[[1]](#footnote-2) | |
| 3  **Feb 29/**  **Mar 1** | -Conservation of Momentum  -Momentum and energy problems  -Elastic and inelastic collisions  -The tunnel of Transmogrification and other demos | **Practice:** I&M:11-15 (Don't turn it in yet)  **Read:** 6-2 | |
| 4  **Mar 2/3** | -More Conservation of momentum  -More Momentum Demos  -Video flip for next time | **Practice:** P6B:1,3,4(+9.0 m/s, -15 m/s) | |
| 5  **Mar 4/7** | -Clocking the physics cannon  -Work on Momentum Lab  -Pass out Formative assessments 6.0, 6.1, 6.2 | **Video Flip:** Conservation of Momentum Lab  **Practice:** COM:1-4 + P6D:1,2(1.66 m/s), 3,4 (38 kg) | |
| **Mar 8/9** | $%&%#@^ Oaks testing | **** | |
| 6  **Mar 10/11** | -Work on Momentum Lab/Assessments | **Practice:** COM:5-7 + P6E:1,2(1.83 m/s),3,4(4.2 m/s right),5  **Read:** 6-3  **Turn In:** Clocking the Physics Cannon | |
| 7  **Mar 14/15** | -Work on Momentum Lab/Assessments  -Finish up formative assessments |  | |
| 8 Mar 16-17 | **Summative Assessments on:**  **6.0 Momentum and Impulse**  **6.1 Rocket Science**  **6.2 Conservation of Momentum** | **Practice:** SOCOM: 3,2 | |
| 9  **Mar 18/29** | Circular Motion and Gravity! | **Turn In:** Conservation of Momentum Lab  **Turn In:** FA 6.0, FA 6.1, FA 6.2 | |
| Assignments:   * 2 Labs:   + *Clocking the Physics Cannon* lab – (in class) /20 pts   + *Conservation of Momentum* lab – Collision with air track /30 pts * 3 Formative/Summative assessments (10 pts each)   + 6.0 Impulse and Momentum   + 6.1: Rocket Science   + 6.2: Conservation of Momentum | | Handouts:  This Syllabus  Worksheet-ImpulseAndMomentum  Worksheet-ConservationOfMomentum  Worksheet-SonOfConservationOfMomentum  Lab-ConservationOfMomentum  FA6.0  FA6.1  FA6.2 |

1. Practice problems are in your chapter. The numbers in the parenthesis are the answers to even problems, the odd answers are in the back of the book so you can check to see if you have them right. [↑](#footnote-ref-2)