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 | **Check #1:** Practice 6.1: 1a-d, 2a-d | | |
| 3  **Feb 29/**  **Mar 1** | -Conservation of Momentum  -Momentum and energy problems  -Elastic and inelastic collisions  -The tunnel of Transmogrification and other demos | **Check #2:** Practice 6.1: 1e, 2e, 3e, 4e  **Read:** 6-2 | | |
| 4  **Mar 2/3** | -More Conservation of momentum  -More Momentum Demos  -Video flip for next time | **Check #3:** Practice 6.2: 1a-c, 2a-c, 3a-c | | |
| 5  **Mar 4/7** | -Clocking the physics cannon  -Work on Momentum Lab  -Pass out Formative Assessments 6.0, 6.1, 6.2 | **Check #4:** Practice 6.2: 1d-e, 2d-e, 3d-e  **Video Flip:** Conservation of Momentum Lab | | |
| **Mar 8/9** | $%&%#@^ Oaks testing | **** | | |
| 6  **Mar 10/11** | -Work on Momentum Lab/Assessments | **Read:** 6-3  **Turn In:** Clocking the Physics Cannon | | |
| 7  **Mar 14/15** | -Work on Momentum Lab/Assessments  -Finish up formative assessments  -Review for assessments |  | | |
| 8 Mar 16/17 | **Summative Assessments on:**  **6.0 Momentum and Impulse**  **6.1 Rocket Science**  **6.2 Conservation of Momentum** | **Turn In:** Conservation of Momentum Lab  **Turn In:** FA 6.0, FA 6.1, FA 6.2  **Turn In:** Practice 6.1: 1a-e, 2a-e, 3e, 4e  **Turn In:** Practice 6.2: 1a-e, 2a-e, 3a-e | | |
| 9  **Mar 18/29** | Circular Motion and Gravity! |  | | |
| Assignments:   * 2 Labs:   + *Clocking the Physics Cannon* lab – (in class) /20 pts   + *Conservation of Momentum* lab – Collision with air track /30 pts * 2 Formative problem sets checked daily:   + Practice 6.1: 1a-e, 2a-e, 3e, 4e   + Practice 6.2: 1a-e, 2a-e, 3a-e * 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-Practice6.1  Worksheet-Practice6.2  Lab-ConservationOfMomentum  FA6.0  FA6.1  FA6.2 |