**IB Physics**

Chapter 6 Syllabus - Adjusted for the Snow Days

Work and Energy

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| --- | --- | --- | --- | --- |
| A | B | In Class | Due | If you miss this class |
| 1 | 1 | -Calculating work  -Energy  -Potential and Kinetic Energy  -Springs and force and energy |  | **Read:** 6.1-4  **Watch:** Videos A-F |
| 2 | 2 | -Introduction to Conservation of energy  -Staring death in the eye  -Conservation of Energy Whiteboards  -Hand out FA and Practice 6.2 |  | **Read:** 6.5-9  **Watch:** Videos G |
| 3 | 3 | -Work on Practice 6.2  -Power  -Efficiency  -Hand out FA and Practice 6.1 | **Check:** P6.2 1-4 | **Read:** 6.10  **Watch:** Videos H-J |
| 4  Jan  24 | 4  Jan  23 | -Rollercoasters  -Work FA 6.1, 6.2  -Energy Lab brainstorm | **Check:** P6.1 1-4 | **Watch:** Energy lab videos |
| 5  Jan  26 | 5  Jan  25 | **Summative Assessments:**  **SA 5.2 - Vertical Circle**  **SA 5.3 – Gravity and Orbit**  **SA 6.1 - Work and Power**  **SA 6.2 - Conservation of Energy** | **Turn In:** FA 5.1, 5.2, 5.3, 6.1, 6.2  **Turn In:** P6.1, 6.2 1-4 |  |
| 6  Jan  30 | 6  Jan  27 | -Energy Lab  -Play with Coaster program | **Video Flip: Energy Lab ideas**  **Check:** Ch 6: 19, 29, 58(28.2 s)  (be sure to do the Problems - they start on p. 162) | Come in before or after school to make up the lab |
| 7  Feb  1 | 7  Jan  31 | -Work on lab and problems | **Check:** Ch 6: 39, 40(2.5r), 52(10. m/s) | Come in before or after school to make up the lab |
| Feb  6 | Feb  2 | **Momentum!!!!** | **Turn In: Energy Lab**  **Turn In: Ch6:**19,29,58,39,40,52 |  |
| Feb  13? | Feb  7 | **More Momentum!!!!!!** |  |  |
| Feb 8, 9 | | **Final - (cumulative for semester)** |  |  |
| Assignments   * 1 Lab:   + Either Human Power output or a lab of your own choosing * 5 Formative/ 4 Summative Assessments:   + 5.1 – Centripetal Force and Acceleration\*   + 5.2 – Vertical Circle   + 5.3 – Gravity and Orbit   + 6.1 - Work and Power   + 6.2 - Conservation of energy * 6 book problems:   + Ch6: 19,29,58,39,40,52   \*no summative | | | \*Handouts: |  |  |