IB Physics

Chapter 5 and 6 Syllabus

Gravity and Circular Motion

Work and Energy

|  |  |  |
| --- | --- | --- |
| Block | Class  | Due  |
| 1Nov 30/ Dec 3 | **DI**-Barrel of Bricks**GW**-Plate Lab**GW**-FA5.1-Circular Motion**DI**-Vertical Circle Demo | **VF 5A, 5B**Turn in: Plate lab |
| 2Dec 4/5 | **GW**-Vertical Circle**GW**-FA5.2 | **VF 5C1, 5C2, 5D** |
| 3Dec 6/7 | **SA5.2-Vertical Circle (first 30)****VF-**5E Gravity**GW**-Gravity problems | Turn in: FA5.2 |
| 4Dec 10/11 | **GW**-5.3 Orbit Problems**VF**-5H Banked Corners (optional) | **VF 5E, 5F, 5G** |
| 5/1Dec 12/13 | **GW**-FA5.3**GW**-Orbit Lab | **VF 6A, 6B** |
| 2Dec14/17 | **SA5.3-Orbit Problems (first 30)****VF**-6C, 6DCalculating Energy**GW**-Calculating Energy | Turin in: FA5.3 |
| 3Dec18/19 | **DI**-Conservation of Energy**GW**-6.2 Conservation of Energy Quizlette | **VF 6E, 6F, 6G** |
| 4Dec20/21 | **DI**-Energy Labs**GW**-6.2 COE Problems**GW**-6.1 Work and Efficiency | **VF 6H, 6I, 6J** |
| 5Jan7/8 | **GW**-Energy lab**GW**-Problems | **VF Energy Lab** |
| 6Jan9/10 | **SA6.2&SA6.1 -Energy (first 60)****IW**-Energy Lab**GW**-Energy Lab | Turn in: FA6.1, FA6.2Turn in: C.O.E Quizlette |
| 7Jan11/14 | **GW**-Energy Lab**VF**-7A, 7B, 7C, 7D | **VF 7A, 7B**Turn in: Energy Lab |
| 1Jan15/16 | **MOMENTUM!!** | **VF 7C, 7D** |

|  |  |
| --- | --- |
| Assignments* 3 Labs:
	+ Plate lab /10 pts
	+ Orbit Lab – simulation /30 pts
	+ Energy Lab /30 pts
* 5 Formative/4 Summative Assessments:
	+ 5.1 – Centripetal Acceleration\*
	+ 5.2 - Vertical Circle
	+ 5.3 - Orbit and Gravity
	+ 6.1-Work and Efficiency
	+ 6.2-Conservation of Energy

\*Formative only | Handouts:  |