**Physics G**

Chapter 7 Syllabus

Gravity and Circular Motion

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| A/B | Class  | Due  | If you miss this class: |
| 9Jan 15/16 | **GW**-Friction Lab**VF**-7A, 7B | Turn In: Friction Lab |  |
| 1Jan 17/18 | **Circular Motion!!** | **VF 7A, 7B - Centripetal** |  |
| 2Jan22/23 |  |  |  |
| 3Jan24/25 |  |  |  |
| **da Final! - Check the website for study materials** |  |
| 4Feb5/6 |  |  |  |
| 5Feb7/8 |  |  |  |
| 6Feb11/12 |  |  |  |
| 7Feb13/14 |  |  |  |
| 8Feb15/19 |  |  |  |
| Feb 20 | **ACT Day!** |  |
| 9Feb21/22 |  |  |  |
| 1Feb21/22 | Work and Energy |  |  |
|  |  |  |  |
| 1Feb 6/7 | -A Veritable Quandary-Centripetal acceleration vs Linear -Centripetal Force-Friction and Centripetal Force |  | **Read:**  7.2 (starting at page 257), 7.3**Watch:** Videos A, B |
| 2Feb8/9 | -Centripetal vs. Centrifugal-Centripetal Force Quizlette | **Check:** P7.1 #1**Turn in:** Centripetal QL |  |
| 3Feb12/13 | -Motion in a vertical circle (g force)-Rollercoaster loops-Mythbusters and Swingsets | **Check:** P7.1 #2-3**Turn In:** P7.1 #1-3 | **Read:** p. 260-2**Watch:** Videos C |
| 4Feb14/15 | -Vertical Circle Quizlette | **Check:** P7.2 #1c-e**Turn in:** Vertical Circle QL |  |
| 5Feb16/20 | -Fundamental forces in Physics -Universal Gravitation-Work on 7.2:1-3ab | **Check:** P7.2 #2-3c-e**Turn In:** P7.2 #1-3 | **Read:** p. 263-5**Watch:** Videos D, E |
| 6Feb21/22 | -Work On Orbit Problems 7.3:1-6-Hand out FA 7.1, 7.2, 7.3 | **Video Flip: F –Orbit (≈22 min)****Turn In:** 7.3 #1-6 | **Watch:** Videos F |
| 7Feb23/26 | -Banked Corners-Gravity in Space -Kepler's Laws-Models of orbital mechanics-Escape Velocity-Orbit lab intro |  | **Read:** p. 266-7**Watch:** Videos G, H |
| 8Feb 28/Mar 1 | -Time to work on problems and lab |  | **Read:** p. 266-7**Read:** p. 268-9 |
| 9Mar2/5 | Summative Assessments:**7.1 - Circular Motion****7.2 - Gravity and Vertical Circle****7.3 - Orbit** | **Turn In:** 7.3**Turn In:** Orbit Lab**Turn in:** FA 7.1, 7.2, 7.3 |  |
| Assignments:* 1 Lab:
	+ *Orbit lab* – (Simulation on computer) /25 pts
* 3 Formative/Summative Assessments:
	+ 7.1 - Circular Motion
	+ 7.2 - Gravity and Vertical Circle
	+ 7.3 - Orbit
* 3 Formative Homework sets
	+ P7.1: 1-3 /30 pts
	+ P7.2: 1-3 /30 pts
	+ P7.3: 1-6 /30 pts
 | Handouts:  |