

Rio Americano High School AP Physics 1

AP1.05 Circular Motion and Gravity

[6/20/18]

1. M 11/5 – UCM Kinematics

- __ Springboard: Uniform Circular Motion
- __ Demonstration: Will It Go 'Round In Circles?
- __ Springboard: Forced to Go In Circles
- __ Read Guide: UCM Kinematics
- __ PhysJob: Pattern Recognition
- __ Complete Q&P < >

2. T 11/6 - UCM Dynamics

- __ Kinetic Carnival: Rotation (Part 1)
- __ Springboard: Centripetal Force Bill
- __ Demo: Will It Go 'Round in More Circles?
- __ Examples: UCM & Gravity / Planetary Data
- __ Complete Job: Prop. Reasoning—UCM
- __ Complete Q&P < >

3. W 11/7 – UCM FBDs

- __ Complete Job: UCM FBDs
- __ Demo: Will It Go 'Round in Adv. Circles?
- __ Complete Q&P < >
- __ Read Guide: The History of Gravity 1
- __ Read Guide: The History of Gravity 2

4. r 11/8 – The History of Gravity

- __ Clicker Quiz: Superheroes of Gravity
- __ Mechanical Universe: *Kepler's Laws*
- __ Springboard: Be Newton for a Day
- __ Complete Q&P < >

5. T 11/13 – Be Newton for a Day

- __ Springboard: The Apple and the Moon
- __ Mech. Universe: *The Apple and the Moon*
- __ Complete Job: Prop. Reasoning—Gravity
- __ PhETLab: The Laws of Attraction
- __ Complete Q&P < >

6. W 11/14 - Orbits

- __ Lab Quiz: Laws of Attraction
- __ PhETLab: Worlds of Wonder (begin)
- __ Complete Q&P < >

7. r 11/15 – Gravity Extended

- __ PhETLab: Worlds of Wonder (finish)
- __ Lab Quiz: Worlds of Wonder
- __ Read Guide: Weighing the Earth
- __ Complete Job: Gravitational Weigh Station

8. F 11/16 – Conceptual Physics Alive!

- __ CPA: *Gravity I*
- __ Complete Job: From Centre to Surface ...
- __ Complete Q&P < >

9. M 11/26 – Conceptual Physics Alive!

- __ CPA: *Gravity II*

10. T 11/27 – Test Correction Mastermind

TCM AP1.04: Statics & Dynamics

11. W 11/28 - Test AP1.05: UCM & Gravity

Guides are not printed for distribution in class. Find them at www.phyz.org.

Essentials of College Physics Textbook: Chapter 7

Hewitt Drew It! YouTube Screencasts: (See <http://phys.org/hewittdrewit>) MECHANICS

Rotational Motion – Episodes 34, 36-38 (Circular Motion) (35=bonus lesson), Gravity – Episodes 44-48 (Gravity), Satellite Motion – Episodes 49-50 (Orbits)

Make up Unit Test AP1.04 as soon as possible; no later than W 11/16. AP make up tests are administered after school only.