

# Rio Americano High School AP Physics 1

## AP1.05 Circular Motion and Gravity

[10/27/17]

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### 1. M 10/30 – UCM Kinematics

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

### 2. B1 10/31 - 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 Q&P < >

### 3. B2 11/1 – UCM in Space

- \_\_ Video Demonstration: Space Oddities
- \_\_ Complete Job: Prop. Reasoning—UCM
- \_\_ Complete Q&P < >

### 4. r 11/2 – 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

### 5. F 11/3 – The History of Gravity

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

### 6. M 11/6 – 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 < >

### 7. T 11/7 - Orbits

- \_\_ Lab Quiz: Laws of Attraction
- \_\_ PhETLab: Worlds of Wonder
- \_\_ Complete Q&P < >

### 8. W 11/8 – Gravity Extended

- \_\_ Lab Quiz: Worlds of Wonder
- \_\_ Read Guide: Weighing the Earth
- \_\_ Complete Job: Gravitational Weigh Station

### 9. M 11/13 – Conceptual Physics Alive!

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

### 11. B1 11/14 - Problem-Solving Practice

- \_\_ Complete FRQs:

### 12. B2 11/15 – Conceptual Physics Alive!

- \_\_ CPA: *Gravity II*

### 13. r 11/16 – Test Correction Mastermind

- TCM AP1.04: Statics & Dynamics

### 14. F 11/17 - Test AP1.05: UCM & Gravity

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Guides are not printed for distribution in class. Find them at [www.phyz.org](http://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 11/8. AP make up tests are administered after school only. Remember, notecards cannot be used on make-up tests.