

# Rio Americano High School AP Physics 1

## AP1.05 Circular Motion and Gravity [11/16/16]

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### 1. B1 11/1 – UCM Kinematics

\_\_Springboard: Uniform Circular Motion  
\_\_Demonstration: Will It Go 'Round In Circles?  
\_\_Springboard: Forced to Go In Circles  
\_\_Guide\*: UCM Kinematics  
\_\_Q&P < \_\_\_\_\_ >

### 2. B2 11/2 - UCM Dynamics

\_\_Kinetic Carnival: Rotation (Part 1)  
\_\_Springboard: Centripetal Force Bill  
\_\_Demo: Will It Go 'Round in More Circles?  
\_\_Examples: UCM & Gravity / Planetary Data  
\_\_Q&P < \_\_\_\_\_ >

### 3. r 11/3 – UCM in Space

\_\_Video Demonstration: Space Oddities  
\_\_PhyzJob: Proportional Reasoning—UCM  
\_\_Q&P < \_\_\_\_\_ >

### 4. F 11/4 – UCM FBDs

\_\_PhyzJob: UCM FBDs  
\_\_Demo: Will It Go 'Round in Adv. Circles?  
\_\_Q&P < \_\_\_\_\_ >  
\_\_Guide: The History of Gravity 1  
\_\_Guide: The History of Gravity 2

### 5. M 11/7 – The History of Gravity

\_\_Job: Superheroes of Gravity  
\_\_PhET Sim Lab Homework: Laws of Attraction  
\_\_Q&P < \_\_\_\_\_ >

### 6. B1 11/8 – Be Newton for a Day

\_\_Springboard: Be Newton for a Day  
\_\_Mech Univ: The Apple and the Moon  
\_\_Job: Proportional Reasoning—Gravity  
\_\_Q&P < \_\_\_\_\_ >

### 7. B2 11/9 - Orbits

\_\_Lab Quiz: Laws of Attraction  
\_\_TechLab: Worlds of Wonder  
\_\_Q&P < \_\_\_\_\_ >

### 8. M 11/14 – Gravity Extended

\_\_Lab Quiz: Worlds of Wonder  
\_\_Guide\*: Weighing the Earth  
\_\_Job: Gravitational Weigh Station

### 9. T 11/15 – Wrap-up Day

\_\_Job: From Centre to Surface ... and Beyond!

### 10. W 11/16 - Problem-Solving Practice

### 11. r 11/17† - Problem-Solving Practice

### 12. F 11/18† – Paul Hewitt: Gravity I

### 13. M 11/28 – Test Correction Mastermind

### 14. B1 11/29 - Unit Test AP1.05

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\*Guides are no longer printed for distribution in class. Find them at [www.phyz.org](http://www.phyz.org) or via Schoology.  
†No db

*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 M 11/7. AP make up tests are administered after school only. Remember, notecards cannot be used on make-up tests.