

Rio Americano High School Physics •

PHY.03 Circular Motion and Gravity [10/04/16]

1. B2 10/5 – Cosmos: A Personal Voyage

__Episode II. One Voice in the Cosmic Fugue

2. r 10/6 - Uniform Circular Motion Kinematics

__Springboard: Uniform Circular Motion
__Demonstration: Will It Go 'Round In Circles?
__Springboard: Forced to Go In Circles
__Guide: UCM Kinematics / Ref: Planetary Data
__Q&P < _____ > Due _____

3. F 10/7 - Uniform Circular Motion Dynamics

__Kinetic Karnival: Rotation (Part 1)
__Springboard: Centripetal Force Bill
__Demonstration: Will It Go 'Round in More Circles?
__Job: Proportional Reasoning—UCM Edition
__Q&P < _____ > Due _____

4. M 10/10 – UCM in Space

__Video Demonstration: Space Oddity
__Examples: UCM & Gravity
__Q&P < _____ > Due _____

5. B1 10/11 – The History of Gravity: SSR+More

__Guide: The History of Gravity 1
__Guide: The History of Gravity 2
__Job: Superheroes of Gravity+Clickers
__Q&P < _____ > Due _____

6. B2 10/12 – From Kepler to Newton

__Mechanical Universe: Kepler's Laws
__Springboard: Be Newton for a Day
__Q&P < _____ > Due _____

7. r 10/13 – Be Newton for a Day

__TechLab: The Laws of Attraction
__Q&P < _____ > Due _____

8. F 10/14 – Be Newton for Another Day

__LabQuiz: LoA
__Mechanical Universe: The Apple and the Moon
__Job: Proportional Reasoning—Gravity Edition
__Q&P < _____ > Due _____

9. B1 10/17 - Gravitational Constant and Orbits

__TechLab: Worlds of Wonder (Data Acquisition)
__Guide: Weighing the Earth
__Q&P < _____ > Due _____

10. B2 10/18 -- Orbits

__Worlds of Wonder (Data Share, Analysis)
__LabQuiz: WoW
__Q&P < _____ > Due _____

11. r 10/20 – Test Correction Journal Day

__TCJ Quiz PHY.01 and TC Journal PHY.02
__Homework Return
__PracTest! (Online)

12. F 10/21 – Hewitt: Gravity I

__*Conceptual Physics Alive!* "Gravity I"

13. M 10/22 – Unit Test PHY.03

Conceptual Physics Textbook: Chapter 10 (UCM), Chapters 13-14 (Gravity)

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)

PhyzGuides are available online at phys.org and via Schoology.

Notes: All make-up tests and TCJ work must be completed prior to TCJ Day.

If you missed the test day in class, make up Unit Test PHY.02 as soon as possible; no later than F 10/14.