

Rio Americano High School Physics

PHY.03 Circular Motion and Gravity

[10/4/17]

1. M 10/2 – Cosmos: A Personal Voyage

__ Episode III. *The Harmony of the Worlds*

2. B1 10/3 - Uniform Circular Motion Kinematics

__ Springboard: Uniform Circular Motion
__ Demonstration: Will It Go 'Round In Circles?
__ Springboard: Forced to Go In Circles
__ Read Guide: UCM Kin.
__ Complete Q&P < > Due _____

3. B2 10/4 - Uniform Circular Motion Dynamics

__ Kinetic Carnival: Rotation (Part 1)
__ Springboard: Centripetal Force Bill
__ Demonstration: Will It Go 'Round in More Circles?
__ Complete Job: Proportional Reasoning—UCM
__ Complete Q&P < > Due _____

4. r 10/5 – UCM in Space

__ Video Demonstration: Space Oddity
__ Examples: UCM & Gravity/Ref: Planetary Data
__ Complete Q&P < > Due _____

5. B1 10/9 – The History of Gravity: SSR + More

__ Read Guide: The History of Gravity 1
__ Read Guide: The History of Gravity 2
__ Complete Job: Superheroes of Gravity + Clickers
__ Complete Q&P < > Due _____

6. B2 10/10 – From Kepler to Newton

__ Mechanical Universe: Kepler's Laws
__ Springboard: Be Newton for a Day
__ Complete Q&P < > Due _____

w 10/11 – Top Gear: Reliant Robin?

7. r 10/12 – Be Newton for a Day

__ TechLab: The Laws of Attraction
__ Complete Q&P < > Due _____

8. F 10/13 – Be Newton for Another Day

__ LabQuiz: LoA
__ Mechanical Universe: The Apple and the Moon
__ Complete Job: Proportional Reasoning—Gravity
__ Complete Q&P < > Due _____

9. M 10/16 - Gravitational Constant and Orbits

__ TechLab: Worlds of Wonder (Data Acquisition)
__ Read Guide: Weighing the Earth
__ Complete Q&P < > Due _____

10. B1 10/17 -- Orbits

__ Worlds of Wonder (Data Share, Analysis)
__ LabQuiz: WoW
__ Complete Q&P < > Due _____

11. B2 10/18 – Test Correction Journal Day

__ TCJ Quiz PHY.01 and TC Journal PHY.02
__ Homework Return
__ PracTest (Online)

12. r 10/19 – Hewitt: Gravity I

__ Conceptual Physics Alive: *Gravity I*

13. F 10/20 – Unit Test PHY.03: UCM & Gravity

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

Hewitt Drew It! YouTube Screencasts: (See <http://phyz.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 phyz.org.

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 10/13.