

# Rio Americano High School Conceptual Physics

## CP.06 Universal Gravitation [Chapter 13]

[6/9/18]

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### 1. r 10/25 – Cosmos: A Spacetime Odyssey

\_\_ Episode 6. *Deeper, Deeper, Deeper Still*

### 2. F 10/26 – Falling Apple & Moon & Earth + Mechanical Universe

\_\_ Read §13.1 Falling Apple

\_\_ Answer q. 1

\_\_ Read §13.2 Falling Moon

\_\_ Answer q. 2

\_\_ Read §13.3 Falling Earth

\_\_ Answer q. 3

\_\_ Mechanical Universe: *Kepler's Laws*

### 3. M 10/29 – Newton's Law of Gravity & Inverse Square Law + Mechanical Universe

\_\_ Read §13.4 Newton's Law of Gravity

\_\_ Answer q. 5, 6

\_\_ Read §13.5 Inverse Square Law

\_\_ Answer q. 7, 8, 9, 10, 11

\_\_ Mechanical Universe: *Apple and the Moon*

### 4. B1 10/30 – Gravitational Field & Gravitation Inside Earth

\_\_ Read §13.6 Gravitational Field

\_\_ Answer q. 12, 28, 29, 30, 31, 32

\_\_ Read §13.7 Gravitation Inside Earth

\_\_ Answer q. 13, 14

### 5. B2 10/31 – Conceptual Physics Alive

\_\_ CPA: *Gravity I*

### 6. r 11/1 – Weightlessness & Tides

\_\_ Read §13.8 Weightlessness

\_\_ Answer q. 15, 33, 34, 35, 36, 37

\_\_ Read §13.9 Tides

\_\_ Answer q. 16, 17

\_\_ YouTube: FedEx Moon Office

### 7. F 11/2 – Black Holes & Universal Gravitation

\_\_ Read §13.10 Black Holes

\_\_ Answer q. 18, 19, 38, 39, 40, 41

\_\_ Read §13.11 Universal Gravitation

\_\_ Answer q. 20, 21

\_\_ YouTube: Chicago's Most Haunted!

### 8. M 11/5 – Conceptual Physics Alive

\_\_ CPA: *Gravity II*

### 9. T 11/6 – Clickers

\_\_ Answer q. 42, 43, 44, 45, 46, 47, 48

\_\_ Clicker Quiz CP.06 - Gravitation

### 10. W 11/7 – Test Corrections CP.05

\_\_ Test Corrections CP.05 – Newton's 3<sup>rd</sup> Law

\_\_ Classwork Return

\_\_ PracTest CP.06 - Gravitation

### 11. r 11/8 – Test CP.06 – Gravitation

\_\_ Get Crossword CP.07 – Momentum

Schedule permitting: Bill Nye—*Gravity*

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### Unit Test CP.06 will cover

*Conceptual Physics* Textbook: Chapter 13 – Universal Gravitation\*\*\*\*

Conceptual Physics Alive: *Gravity I* + *Gravity II*\*\*

Activities + Mechanical Universe: *Kepler's Laws* + *The Apple and The Moon*\*\*

Cosmos Episode 6: *Deeper, Deeper, Deeper Still*\*\*