

Rio Americano High School Physics

PHY.05 Energy

[11/8/17]

1. M 11/14 – Cosmos: A Personal Voyage

__ Episode V: *Blues for a Red Planet*

2. B1 11/15 – Equilibrium

__ Springboard: Equilibrium

__ Read Guide: Equilibrium

__ YouTube: Equilibrium as Entertainment

__ Experiment: Uphill Climb (begin)

__ Complete Q&P < > Due _____

3. B2 11/16 – Work Lab

__ Experiment: An Uphill Climb (finish)

__ LabQuiz + Post-lab discussion

__ Complete Q&P < > Due _____

4. F 11/17 – Work

__ Springboard: Work

__ Read Guide: Work / Simple Machines

__ Examples: Energy

__ Complete Q&P < > Due _____

5. M 11/27 – Potential Energy

__ Springboard: Potential Energy

__ Read Guide: Potential Energy

__ Complete Q&P < > Due _____

6. B1 11/28 – Kinetic Energy

__ Springboard: Kinetic Energy

__ Read Guide: Kinetic Energy

__ Complete Q&P < > Due _____

7. B2 11/29 – Energy Transformations

__ Sketches: Pole Vault and the Dart

__ Sketches: Bungee Jump

__ Complete Q&P < > Due _____

8. r 11/30 – Mini-Launcher Lab I

__ Learning the setup day

9. F 12/1 – Mini-Launcher Lab II

__ Data collection and analysis day

10. M 12/4 – Conservation of Energy

__ Springboard: Conservation of Energy

__ Read Guide: Conservation of Energy

__ Complete Q&P < > Due _____

11. B1 12/5 – Power

__ Springboard: Introduction to Power

__ YouTube: Power Balance Wrist Bandits

__ Complete Q&P < > Due _____

12. B2 12/6 – Energy Demonstration

__ Demo: Physics in the Fountain of Fizz

__ Complete Job: Roller Coaster Physics

__ Mechanical Universe: *Conservation of Energy*

13. r 12/7 - Energy Conservation

__ Conceptual Physics Alive: *Energy*

__ Complete Q&P < > Due _____

14. F 12/8 - Test Correction Journal Day

__ TCJ Quiz 3 and TC Journal 4

__ Homework Return

__ PracTest (Online)

15. M 12/11 - Unit Test PHY.04: Energy

Conceptual Physics Textbook: Chapter 9 (Energy), 11.7 (Equilibrium)

Hewitt Drew It! YouTube Screencasts: (See <http://phyz.org/hewittdrewit>) MECHANICS: Energy

Make up Unit Test PHY.04 as soon as possible; no later than F 11/17. The TCJ for PHY.03 must be completed prior to the PHY.04 TCJ Journal Day.

END-OF-SEMESTER SCHEDULE

Block 12/12-13 – Merchants of Doubt [**Make up Unit Test PHY.05 if missed!**]

Thursday 12/14 – TCJ Quiz 4 and TC Journal 5

Friday 12/15 – Nova: Secrets of the Psychics

Monday 12/18 – TCJ Quiz 5 + The Physics of Car Crashes

FIRST SEMESTER FINAL EXAMS (7:55-10:05am — 10:20am-12:30pm)

Tuesday 12/19 – 1, 2 • **Wednesday 12/20** – 3, 4 • **Thursday 12/21** – 5, 6

*** Missed make-ups must be completed during Final Exam days ***