

Rio Americano High School Physics

PHY.02 Newton's Laws

[9/27/17]

1. B1 9/5 – Cosmos: A Personal Voyage

__ Episode II: *One Voice in the Cosmic Fugue*

2. B2 9/6 – Inertia Activities 1

__ Lab: Inertia in Action

__ Complete Q&P < > Due _____

3. r 9/7 – Inertia Activities 2

__ Lab: Inertia in Action

__ LabQuiz + Discussion

__ Complete Q&P < > Due _____

4. F 9/8 – Inertia Demos

__ Demo: The Clever Dumbbell

__ Demo: Cannonball

__ Complete Q&P < > Due _____

5. M 9/11 – Earth Wind & Fire

__ Springboard: Newton's First Law

__ Read Guide*: Newton's First Law

__ Complete Q&P < > Due _____

6. T 9/12 – Inertia Films

__ Mechanical Universe: *Inertia*

__ YouTube: Bad Truck, Good Truck, Cactus Mine

__ Complete Q&P < > Due _____

7. W 9/13 – Prelab Sim

__ PhET Lab: Pushing Things Around

__ Complete Q&P < > Due _____

8. r 9/14 – Newton's Second Law Experiment

__ Experiment: Putting the Force Before the Cart

9. F 9/15 – Continue Experiment

__ Experiment: Putting the Force Before the Cart

__ Complete Q&P < > Due _____

10. M 9/18 – Finish Experiment + LabQuiz

__ Experiment: Putting the Force Before the Cart

__ LabQuiz + Discussion

__ Complete Q&P < > Due _____

11. B1 9/19 – Newton's Second Law

__ Springboard: Newton's Second Law

__ Read Guide*: Newton's Second Law

__ Complete Job: A Day at the Races

__ Complete Q&P < > Due _____

12. B2 9/20 – Mechanical Forces

__ Examples: Newton's Second Law

__ Lab Springboard: Feel the Forces

__ Complete Q&P < > Due _____

13. r 9/21 – Weight Activity

__ Lab Springboard: The Heaviness of Mass Lo-Tech

__ Complete Q&P < > Due _____

14. F 9/22 – Weight Activity Continued

__ Lab Springboard: The Heaviness of Mass Hi-Tech

__ Complete Q&P < > Due _____

15. M 9/25 – Interaction Activity

__ Lab Springboard: The Force Mirror

__ Read Guide*: Real Objects for Real Forces

__ Job: Newton III Force Pairs

__ Complete Q&P < > Due _____

16. B1 9/26 – Demonstrations

__ Demo: Blowout Newton

__ LabQuiz: Heaviness of Mass | Force Mirror

__ Complete Q&P < > Due _____

17. B2 9/27 – Test Correction Journal Day

__ Test Correction Journal for PHY.01

__ Homework Return

18 r 9/28 – Wrap-Up

__ Demo: The Newtonian Dart

__ Mechanical Universe: Newton's Laws

__ PracTest (Online)

19. F 9/29 – Unit Test PHY.02: Newton's Laws

*PhyzGuides are not printed for distribution in class. They are available for viewing and download at www.phyz.org.

Conceptual Physics Textbook: Chapters 3 (Newton's First Law), 6 (Newton's Second Law), 7 (Newton's Third Law)

Hewitt Drew It Screencasts: MECHANICS (Newton's First, Second, and Third Laws sections)

All make-up tests and TCJ work must be completed prior to TCJ Day. Make up Unit Test 1 as **soon as possible**; no later than F 9/22. Unit tests made up 2 days or fewer in advance of TCJ Day will result in the loss of the in-class TCJ journaling privilege on TCJ Day. Journaling will have to be made up at lunch or after school.