

Rio Americano High School Physics

PHY.02 Newton's Laws

[6/6/18]

1. M 9/10 – Cosmos: A Personal Voyage

__ Episode I: *On the Shores of the Cosmic Sea*

2. T 9/11 – Inertia Activities 1

__ Lab: Inertia in Action

__ Complete Q&P < > Due _____

3. w 9/12 – Inertia Activities 2

__ Lab: Inertia in Action

__ LabQuiz + Discussion

__ Complete Q&P < > Due _____

4. r 9/13 – Inertia Demos

__ Demo: The Clever Dumbbell

__ Demo: Cannonball

__ Complete Q&P < > Due _____

5. F 9/14 – Earth Wind & Fire

__ Springboard: Newton's First Law

__ Read Guide*: Newton's First Law

__ Complete Q&P < > Due _____

6. M 9/17 – Inertia Films

__ Mechanical Universe: *Inertia*

__ YouTube: Inertia—Friend Foe Fact Fiction

__ Complete Q&P < > Due _____

7. B1 9/13 – Prelab Sim

__ PhET Lab: Pushing Things Around

__ Complete Q&P < > Due _____

8. B2 9/14 – Newton's Second Law Experiment

__ Experiment: Putting the Force Before the Cart

9. r 9/15 – Continue Experiment

__ Experiment: Putting the Force Before the Cart

__ Complete Q&P < > Due _____

10. F 9/18† – Finish Experiment + LabQuiz

__ Experiment: Putting the Force Before the Cart

__ LabQuiz + Discussion

__ Complete Q&P < > Due _____

11. M 9/24 – 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. B1 9/25 – Weight Activity

__ Lab Springboard: The Heaviness of Mass Lo-Tech

__ Complete Q&P < > Due _____

13. B2 9/26 – Weight Activity Continued

__ Lab Springboard: The Heaviness of Mass Hi-Tech

__ Complete Q&P < > Due _____

14. r 9/27 – Mechanical Forces

__ Examples: Newton's Second Law

__ Lab Springboard: Feel the Forces [short]

__ Complete Q&P < > Due _____

15. F 9/28 – Interaction Activity

__ Lab Springboard: The Force Mirror

__ Read Guide*: Real Objects for Real Forces

__ Job: Newton III Force Pairs

__ Complete Q&P < > Due _____

16. M 10/1 – Demonstrations

__ Demo: Blowout Newton

__ LabQuiz: Heaviness of Mass | Force Mirror

__ Complete Q&P < > Due _____

17. B1 10/2 – Test Correction Journal Day

__ Test Correction Journal for PHY.01

__ Unit Work Return

18 B2 10/3 – Wrap-Up

__ Demo: The Newtonian Dart

__ Clicker Quiz

__ PracTest PHY.02 (Online)

19. r 10/4 – Unit Test PHY.02: Newton's Laws

*PhyzGuides are not printed for distribution in class. They are available for viewing, download, and printing 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)

†Make up Unit Test PHY.01 as **soon as possible**; no later than F 9/18. Check the availability schedule on the board to see when you can come in. Unit tests made up after the posted date may result in the loss of the in-class TCJ journaling privilege on TCJ Day. In that case, journaling will have to be made up at lunch or after school.