

# Rio Americano High School Physics •

## PHY.02 Newton's Laws

[9/9/16]

### 1. F 9/9 – Cosmos: A Personal Voyage

\_\_ Episode I: On the Shores of the Cosmic Ocean

### 2. M 9/12 – Inertia Activities 1

\_\_ PhysLab: Inertia in Action

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 3. B1 9/13 – Inertia Activities 2

\_\_ PhysLab: Inertia in Action

\_\_ LabQuiz + Discussion

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 4. B2 9/14 – Inertia Demos

\_\_ Demo: The Clever Dumbbell

\_\_ Demo: Cannonball

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 5. r 9/15 – Earth Wind & Fire

\_\_ Springboard: Newton's First Law

\_\_ PhysGuide\*: Newton's First Law

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 6. F 9/16 – Inertia Films

\_\_ Mechanical Universe: Inertia

\_\_ YouTube: Bad Truck, Good Truck

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 7. M 9/19 – Prelab Sim

\_\_ PhET Lab: Pushing Things Around

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 8. B1 9/20 – Newton's Second Law Experiment

\_\_ Experiment: Putting the Force Before the Cart

### 9. B2 9/21 – Continue Experiment

\_\_ Experiment: Putting the Force Before the Cart

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 10. r 9/22 – Finish Experiment + LabQuiz

\_\_ Experiment: Putting the Force Before the Cart

\_\_ LabQuiz + Discussion

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 11. F 9/23 – Newton's Second Law

\_\_ Springboard: Newton's Second Law

\_\_ PhysGuide\*: Newton's Second Law

\_\_ PhysJob: A Day at the Races

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 12. M 9/26 – Mechanical Forces

\_\_ Examples: Newton's Second Law

\_\_ Lab Springboard: Feel the Forces

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 13. B1 9/27 – Weight Activity

\_\_ Lab Springboard: The Heaviness of Mass

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 14. B2 9/28 – Interaction Activity

\_\_ Lab Springboard: The Force Mirror

\_\_ PhysGuide\*: Real Objects for Real Forces

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 15. r 9/29 – Blow Gun Demo

\_\_ Demo: Blowout Newton

\_\_ PhysJob: Newton III Force Pairs

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 16. F 9/29 – Dart Gun Demo + Newton Film

\_\_ Demo: The Newtonian Dart

\_\_ Mechanical Universe: Newton's Laws

\_\_ Q&P < \_\_\_\_\_ > Due \_\_\_\_\_

### 17. M 10/3 – Test Correction Journal Day

\_\_ Test Correction Journal for PHY.01

\_\_ Homework Return

### 18. B1 10/4 – Unit Test PHY.02

\*PhysGuides are not printed for distribution in class. They are available for viewing and download at [www.phyz.org](http://www.phyz.org) and Schoology.

*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 9/25. 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.