

# Rio Americano High School AP Physics 1

## AP1.03 Newton's Laws

[9/27/16]

### 1. M 9/26 – Unit AP1.02 Unit Test

### 2. B1 9/27 – The Inertia Experience I

\_\_ Lab Springboard: Inertia In Action

\_\_ Demo: The Clever Dumbbell

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

### 3. B2 9/27 – The Inertia Experience II

\_\_ Demo: Cannonball

\_\_ Mechanical Universe: Inertia Preparation

\_\_ Homework: PhET Lab: Pushing Things Around

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

### 4. r 9/29 – The Inertia Experience III

\_\_ Mechanical Universe: Inertia

\_\_ LabQuiz: The Inertia Experience

\_\_ Springboard: Newton's First Law

\_\_ PhysGuide: Newton's First Law

\_\_ Videoclips: Bad Truck, Good Truck, Cactus Mine

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

### 5. F 9/30 – Force, Mass & Acceleration EXP

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

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

### 6. M 10/3 – Newton's Second Law

\_\_ Finish & Quiz: Putting the Force Before the Cart

\_\_ Examples: Newton's Second Law

\_\_ Springboard: Newton's Second Law

\_\_ PhysGuide: Newton's Second Law

\_\_ PhysJob: A Day at the Races

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

### 7. B1 10/4 – Weight Activity (Analog)

\_\_ Activity: The Heaviness of Mass (Low-Tech)

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

### 8. B2 10/5 – Weight Activity (Digital)

\_\_ Activity: Hi-Tech Heaviness of Mass

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

### 9. r 10/6 – May the $\Sigma F$ be with You

\_\_ PhysJob: Newtonian Number Puzzles

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

### 10. F 10/7 – Interaction Activity

\_\_ Activity: The Force Mirror

\_\_ PhysGuide: Real Objects for Real Forces

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

### 11. M 10/10 – Blow Gun Demo

\_\_ Demo: Blowout Newton

\_\_ PhysJob: Newton's Laws Force Pairs

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

### 12. B1 10/11 – Dart Gun Demo + Newton Video

\_\_ Demo: The Newtonian Dart

\_\_ MU: Newton's Laws

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

### 13. B2 10/12 – Wrap Up

\_\_ Problem Exercise

### AP1.04: 1. B1 10/6 – Normal and Weight

\_\_ Video Demo: Elevator Man

### 14. F 10/14 – Unit Test AP1.03

*Essentials of College Physics* Textbook: Chapter 4 (The Laws of Motion)

Hewitt Drew It Screencasts (recommended): MECHANICS (Newton's First, Second, and Third Laws sections). To access screencasts, follow the "Hewitt Drew It Physics Screencasts" link from [physz.org](http://physz.org)'s "All Things PhyszVideo" link.

Make up Unit Test 1 as **soon as possible**; no later than T 9/22. AP Physics make-up tests must be done after school only. Check the availability schedule to see which days are available. Remember, notecards cannot be used on make-up tests.

Physics PracTests are available at [physz.org](http://physz.org) and Schoology. They are intended for Physics (PHY) rather than AP Physics 1 (AP1), but are still useful where topics in PHY and AP1 overlap.