

Rio Americano High School AP Physics 1

AP1.03 Newton's Laws

[6/20/18]

1. B2 9/26 – The Inertia Experience I

- __ Lab Springboard: Inertia In Action
- __ Demo: The Clever Dumbbell
- __ Complete Q&P < >

2. r 9/27 – The Inertia Experience II

- __ Demo: Cannonball
- __ Mechanical Universe: Inertia Preparation
- __ Homework: PhET Lab: Pushing Things Around
- __ Complete Q&P < >

3. F 9/28 – The Inertia Experience III

- __ Mechanical Universe: *Inertia*
- __ LabQuiz: The Inertia Experience
- __ Springboard: Newton's First Law
- __ Read Guide: Newton's First Law*
- __ Complete Q&P < >

4. M 10/1 – Force, Mass & Acceleration EXP

- __ Experiment: Putting the Force B4 the Smart Cart
- __ Complete Q&P < >

5. B1 10/2 – Newton's Second Law

- __ Finish & Quiz: Putting the Force B4 the Smart Cart
- __ Examples: 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 < >

6. B2 10/3 – Weight Activity (Analog)

- __ Activity: The Heaviness of Mass (Low-Tech)
- __ Complete Q&P < >

7. r 10/4 – Weight Activity (Digital)

- __ Activity: Hi-Tech Heaviness of Mass
- __ Complete Job: Newtonian Number Puzzles
- __ Videoclips: Bad Truck, Good Truck, Cactus Mine?
- __ Complete Q&P < >

8. B1 10/9 – Interaction Activity

- __ Activity: The Force Mirror
- __ Complete Q&P < >

9. B2 10/10 – More on Newton

- __ LabQuiz: Heaviness of Mass / Force Mirror
- __ Conceptual Physics Alive: Newton Mashup
- __ Read Guide: Real Objects for Real Forces*
- __ Complete Q&P < >

10. r 10/11 – Blow Gun Demo

- __ Demo: Blowout Newton
- __ Complete Job: Newton's Laws Force Pairs
- __ Complete Q&P < >

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

- __ Demo: The Newtonian Dart
- __ Mechanical Universe: *Newton's Laws*
- __ Notecard stamp
- __ Complete Q&P < >

12. M 10/15 – Wrap Up

- __ Problem Exercise | Test Correction Mastermind

13. T 10/16 – Test AP1.03: Newton's Laws

*PhyzGuides are available at phys.org. They are no longer printed.

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, go to phys.org > "classic"/additional links > "All Things PhyzVideo" > "Hewitt Drew It Physics Screencasts"

Make up Unit Test 1 as **soon as possible**; no later than F 9/29. 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 phys.org. They are intended for Physics (PHY) rather than AP Physics 1 (AP1), but are still useful where topics in PHY and AP1 overlap.