

Rio Americano High School AP Physics 1

AP1.03 Newton's Laws

[10/4/17]

1. r 9/21 – The Inertia Experience I

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

2. F 9/22 – The Inertia Experience II

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

3. M 9/25 – 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. B1 9/26 – Force, Mass & Acceleration EXP

__ Experiment: Putting the Force Before the Cart
__ Complete Q&P < >

5. B2 9/27 – Newton's Second Law

__ Finish & Quiz: Putting the Force Before the 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. r 9/28 – Weight Activity (Analog)

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

7. F 9/29 – 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. M 10/2 – Interaction Activity

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

9. B1 10/3 – 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. B2 10/4 – Blow Gun Demo

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

11. r 10/5 – Dart Gun Demo + Newton Video

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

12. B1 10/9 – Wrap Up

__ Problem Exercise | Test Correction Mastermind

13. B2 10/9 – 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.