

Rio Americano High School AP Physics 1

AP1.02 Kinematics II: Algebra & Projectiles [9/1/17]

1. B1 9/5 – Working Up

- __Demo: Speed Machines
- __Springboard: Velocity-Position 1
- __Complete Jobs: Little Dudes Ride Again 1
- __Complete Q&P < >

2. B2 9/6 – Working Up Some More

- __Springboard: Velocity-Position 2
- __Complete Job: Little Dudes Ride Again 2
- __Complete Job: Analytical Graphical Kinematics
- __Complete Q&P < >

3. r 9/7 - Algebraic Kin

- __Read Guide: Algebraic Kinematics
- __Examples: Algebraic Kinematics
- __Complete Job: Algebraic Kinematics
- __Complete Q&P < >

4. F 9/8 - Acceleration Demo

- __Read Guide: Recipe for Success
- __Demo: Blowout—Challenge of the Crystal Conduit
- __Complete Q&P < >

5. M 9/13 - Projectile Demo

- __Mechanical Universe: *Free Fall*
- __Demo: The Great Bullet Race
- __Read Guide/Examples: Projectile Motion
- __Complete Q&P < >

6. B1 9/14 – Projectile Algebra

- __Recipe for Success: 2-D Kinematics
- __Video Demo: Flares Away, Car Bowling
- __Complete Job: Cannonball Trajectory
- __Complete Q&P < >

7. B2 9/15 – Projectiles [!!!BDE*!!!]

- __Demo: Banana Gun
- __Read Guide: Monkey Gun
- __Complete Q&P < >

8. r 9/16 – Small-Scale Projectile Lab

- __Experiment: Mini-launchers on long-set tables
- __Complete Q&P < >

9. F 9/17 – Modeling with the Simulation

- __PhET Sim: Projectile Motion (Simple)
- __Complete Q&P < >

10. M 9/20 – Large-Scale Projectile Lab

- __Lab: Blast-Off! [Air Rockets and PhET—*full on!*]
- __LabQuiz: Blast-Off!
- __Complete Q&P < >

12. B1 9/21 - Wrap-Up

13. B2 9/22 - Test AP1.02: Algebraic Kinematics and Projectiles

Essentials of College Physics Textbook: Chapters 2 and 3 (Solved problems can be found in the textbook supplements.) YouTube Hewitt Drew It Screencasts: Projectile and Satellite Motion. To access these screencasts, go to <http://phys.org> (your new favorite website) and click “All Things PhyszVideo,” then “Hewitt Drew It! Physics Screencasts”. From the screencast directory, click the topic listed here on the schedule (in this case, “Projectile and Satellite Motion”). This will take you to videos related to that topic.

Homework assigned for either B1 (block hour 1) or B2 (block hour 2) isn't due until the subsequent Thursday (“r”). Use the “Q&P < ____ >” to record the numbers of the homework (Questions and Problems) pages. Write the due date (usually the next day) next to the page numbers.

*Best Demo Evar!