

Rio Americano High School AP Physics 1

AP1.01 Kinematics in One Dimension

[8/17/16]

1. r 8/18 – Physics Begins w/M

__Minibios + Ms + Stuff to Get
__Welcome Math Assessment Preview

2. F 8/19 - The Why/How Tree

__Springboard: The Why/How Tree
__Guide: The Why/How Tree
__Guide: Rules of the Universe
__Welcome Math Assessment
__Q&P < _____ > Due_____

3. M 8/22 – Powers of Ten

__Springboard: Numeric Notation
__Reference: Sci-Eng-SI Notation
__Guide: Orders of Magnitude
__Reference: Letters and Symbols
__Video Short: Powers of Ten
__Q&P < _____ > Due_____

4. T 8/23 – Space and Time

__Discussion: Space and Time
__Guide: Space and Time
__Examples: Motion / Graphing Technique
__Q&P < _____ > Due_____

5. W 8/24 – Motion Lab

__Springboard: Graphing Motion
__Experiment: Motion to Graph
__Q&P < _____ > Due_____

6. r 8/25 – Graph Kin: Uniform Motion

__Springboards: Little Dudes 1 & 2
__PhyzJob: Little Dots UM
__Q&P < _____ > Due_____

7. F 8/26 – Graph Kin: Accelerated Motion

__Springboards: Little Dudes 3 & 4
__PhyzExamples: Position, Velocity, and Acceleration
__PhyzJob: Little Dots UAM
__Begin Lab: Notion for Motion
__Q&P < _____ > Due_____

8. M 8/29 – Hi-tech Motion Lab

__Finish Lab: Notion for Motion
__Begin Lab: Sonic Ranger
__Job: What's Goin' On?
__Q&P < _____ > Due_____

9. T 8/30 - Hi-tech Motion Lab

__Finish Lab: Sonic Ranger
__Q&P < _____ > Due_____

10. W 8/31 – Acceleration Pre-Lab

__Prelab: Carts & Tracks
__Graph Kin Primer and Exercises
__Job: How's it Going?
__Q&P < _____ > Due_____

11. r 9/1 – Acceleration Lab

__Begin Lab: Going Through Motions
__LabQuiz
__Q&P < _____ > Due_____

12. F 9/2 – Working Up

__Finish Lab: Going Through Motions
__Springboard: Velocity-Position 1
__Jobs: Little Dudes Ride Again 1
__What Do They Mean?
__Q&P < _____ > Due_____

13. T 9/6 – Working Up

__Springboard: Velocity-Position 2
__Job: Little Dudes Ride Again 2
__Job: Analytical Graphical Kinematics
__Q&P < _____ > Due_____

14. W 9/7 - Algebraic Kin

__Guide: Algebraic Kinematics
__Examples: Algebraic Kinematics
__Job: Algebraic Kinematics
__Q&P < _____ > Due_____

15. r 9/8 - Acceleration Demo

__Guide: Recipe for Success
__Demo: Blowout—Challenge of the Crystal Conduit
__Q&P < _____ > Due_____

16. F 9/9 – Wrap-Up

17. M 9/12 - Unit Test AP1.01

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