

Rio Americano High School AP Physics 1

AP1.01 Kinematics I: Graphical Analysis

[8/3/17e]

1. r 8/10 – Physics Begins w/M

- __Minibios + Ms + Stuff to Get
- __Welcome Math Assessment Preview

2. F 8/11 - The Why/How Tree

- __Springboard: The Why/How Tree
- __Read Guide: The Why/How Tree
- __Read Guide: Rules of the Universe
- __Welcome Math Assessment
- __Seating Chart balloting
- __Complete Q&P < >

3. M 8/14 – Powers of Ten

- __Seating Chart
- __Springboard: Numeric Notation
- __Reference: Sci-Eng-SI Notation
- __Read Guide: Orders of Magnitude
- __Reference: Letters and Symbols
- __Video Short: Powers of Ten
- __Complete Q&P < >

4. T 8/15 – Space and Time

- __Discussion: Space and Time
- __Read Guide: Space and Time
- __Examples: Motion / Graphing Technique
- __Complete Q&P < >

5. W 8/16 – Motion Graphing

- __Springboard: Graphing Motion
- __Complete Q&P < >

6. r 8/17 – Graph Kin: Uniform Motion

- __Springboards: Little Dudes 1 & 2
- __Complete Job: Little Dots UM
- __Complete Q&P < >

7. F 8/18 – The Universe

Total Eclipse

- __Answer questions during video presentation

8. M 8/21 – Conceptual Physics Alive

CPA: *Linear Motion*

- __Answer questions during video presentation
- __Springboards: Little Dudes 3 & 4

9. T 8/22 - Graph Kin: Accelerated Motion

- __PhyzJob: Little Dots UAM
- __Examples: Position, Velocity, and Acceleration
- __PhyzJob: Graphical Kinematics Primer
- __Complete Q&P < >

10. W 8/23 – Motion Lab

- __Lab: A Notion for Motion
- __Complete Job: What's Goin' On?
- __Complete Q&P < >

11. r 8/24 - Motion Lab

- __Lab: A Notion for Motion
- __Complete Q&P < >

12. F 8/25 - Hi-tech Motion Lab

- __Lab: Sonic Ranger
- __Get PhET: Motivating the Moving Man
- __Complete Q&P < >

13. M 8/28 – Acceleration Pre-Lab

- __Prelab: Carts & Tracks
- __Graph Kin Primer and Exercises
- __Complete Job: How's it Going?
- __Complete Q&P < >

14. T 8/29– Acceleration Lab

- __Lab: Going Through Motions
- __LabQuiz
- __Complete Q&P < >

15. W 8/30 – Lab Wrap

- __LabQuiz: Going Through the Motions
- __What Do They Mean?
- __Complete Q&P < >

16. r 9/1 – Wrap-Up

- __LabQuiz: Motivating the Moving Man

17. F 9/2 - Test AP1.01: Kinematics I: Graphing

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://phyz.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.