

Rio Americano High School Physics

PHY.01 Introduction to Motion

[revised 9/4/18]

1. r 8/16 – Physics Begins with an M

__ Minibios
__ Ms
__ Stuff to Get

2. F 8/17 – The Why/How Tree

__ Springboard: The Why/How Tree
__ Read Guide: The Why/How Tree
__ Read Guide: The Rules of the Universe
__ Complete Q&P < _____ > Due _____

3. M 8/20 – Numeric Notation

__ Springboard: Numeric Notation
__ Reference: Scientific - Engineering - SI Notation
__ Reference: Quantities and Units
__ Read Guide: Orders of Magnitude
__ Complete Q&P < _____ > Due _____

4. T 8/21 – Space and Time

__ Video Short: Powers of Ten
__ Job: Powers of Ten Estimations: Due _____
__ Springboard: Space and Time
__ Read Guide: Space and Time
__ Examples: Motion / Graphing Technique
__ Complete Q&P < _____ > Due _____

5. W 8/22 – Graphing Motion

__ Springboard: Graphing Motion
__ Reference: Letters and Symbols
__ Complete Q&P < _____ > Due _____

6. r 8/23 – Motion Lab

__ Begin Experiment: A Notion for Motion
__ Complete Q&P < _____ > Due _____

7. F 8/24 – Motion Lab and Baloney YT HW

__ Finish Experiment: A Notion for Motion
__ YouTube: Baloney Detection Kit, Due _____

8. M 8/27 – High-Tech Motion Lab

__ Lab: Sonic Ranger
__ Complete Q&P < _____ > Due _____

9. T 8/28 – Quiz/Discuss High-Tech Lab

__ LabQuiz: Sonic Ranger
__ Springboard: Speeding Through Motion
__ Complete Q&P < _____ > Due _____

10. W 8/29 – Lab Prep Activities

__ Lab Prep: Carts and Tracks
__ Complete Q&P < _____ > Due _____

11. r 8/30 – Lab Prep Activities + Psychic YT HW

__ Lab Prep: Get Smart
__ YouTube: Secrets of the Psychics, Due _____

12. F 8/31 – Lab Prep Activities

__ Lab Prep: Get Smart
__ Complete Q&P < _____ > Due _____

13. T 9/4 – Begin Fan Cart / Accelerometer Lab

__ Lab: Going Through the Motions
__ Complete Q&P < _____ > Due _____

14. W 9/5 – Finish Fan Cart / Accelerometer Lab

__ Lab: Going Through the Motions
__ Post-Lab Discussion
__ Complete Q&P < _____ > Due _____

15. r 9/6 – Hewitt Video Lesson

__ LabQuiz: Lab Preps (Track • Cart • Cap)
__ Conceptual Physics Alive: *Linear Motion 1.4x*
__ Unit Work Return

16. f 9/7 – Wrap-Up

__ LabQuiz: Going Through the Motions
__ PHY.01 Clicker Quiz
__ PHY.01 PracTest (find on phys.org)

17. M 9/10 - Unit Test PHY.01: Intro to Motion

Conceptual Physics Textbook: Chapter 4 • YouTube Hewitt Drew It Screencasts: Linear Motion. To access these screencasts, go to <http://phys.org> (your new favorite website) and click "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.

The "Q&P < _____ > Due _____" on the schedule is the space in which you record the daily homework **Q**uestion and **P**roblem assignments and their corresponding due dates. Look for this information on the front board in the classroom, under the letters, "PHY".