

Rio Americano High School AP Physics 1

AP1.09 Simple Harmonic Motion

[2/13/18]

1. B2 2/13 – Hooke’s Lab

__Lab: Totally Stressed
__Complete Q&P < >

2. r 2/15 – Hooke’s Law and EPE

__Finish Lab + LabQuiz
__Guide: Hooke’s Law
__Springboard: Elastic Potential Energy
__Examples: Simple Harmonic Motion
__Complete Q&P < >

3. F 2/16 – Elastic Potential Energy

__Job: “Lethal (PE) Weapons”
__Job: Physics in the Spring
__Complete Q&P < >

4. M 2/26 – Intro to SHM: Period

__Springboard: Springs and Swings
__Mechanical Universe: Harmonic Motion
__Complete Q&P < >

5. B1 2/27 – SHM Dynamics Cart EXPs

__Experiment: Inclined to Oscillate 1:
Period, Graph, and Energy
__Complete Q&P < >

6. B2 2/28 – SHM Dynamics Cart EXPs

__Guide: Simple Harmonic Motion
__Job: Simple Harmonic Motion Kinematics

7. r 3/1 – SHM Dynamics Cart EXPs

__LabQuiz + Discuss
__Complete Q&P < >

8. F 3/2 – SHM Dynamics Cart EXPs

__Experiment: Inclined to Oscillate II:
Doubling Up and Velocity
__Job: The Jiggler
__Complete Q&P < >

9. M 3/5 – SHM Dynamics Cart EXPs

__Finish: Inclined to Oscillate II
__LabQuiz + Discussion
__Complete Q&P < >

10. T 3/6 – SHM Dynamics Cart EXPs

__Experiment: Inclined to Oscillate III:
Acceleration
__Experiment: Inclined to Oscillate IV:
The Force Awakens

11. W 3/7 – Bungee Bounce & Beyond

__YouTube Physics: Baird Bungee Bounce

12. r 3/8 – PhET Sim

__PhETLab: Spring To Another World

13. F 3/8 – Wrap Up / TCM

__Test Correction MasterMind AP1.08 Rotation

14. M 3/12 – Unit Test AP1.09: SHM

Essentials of College Physics Textbook - Chapter 13: Vibrations and Waves

Hewitt Drew It! Screencasts (phys.org/hewittdrewit)

SOUND: Vibrations and Waves — Episode 82

Make Up Unit Test AP1.08 as soon as possible; no later than Friday, 3/2. Remember, notecards cannot be used on make-up tests.