

Rio Americano High School AP Physics 1

AP1.09 Simple Harmonic Motion

[2/14/17]

1. B1 2/14 – Hooke’s Lab

__Lab: Totally Stressed
__Q&P Page/s < > APFR:

2. B2 2/15 – Hooke’s Law and EPE

__LabQuiz
__Guide: Hooke’s Law
__Springboard: Elastic Potential Energy
__Examples: Simple Harmonic Motion
__Q&P Page/s < > APFR:

3. r 2/16 – Elastic Potential Energy

__Job: “Lethal (PE) Weapons”
__Job: Physics in the Spring
__Q&P Page/s < > APFR:

4. F 2/17 – Intro to SHM: Period

__Springboard: Springs and Swings
__Mechanical Universe: Harmonic Motion†
__Q&P Page/s < > APFR:

5. M 2/27 – SHM Dynamics Cart EXPs

__Experiment: Inclined to Oscillate 1:
Period, Graph, and Energy
__Q&P Page/s < > APFR:

6. B1 2/28 – SHM Dynamics Cart EXPs

__Guide: Simple Harmonic Motion
__Job: Simple Harmonic Motion Kinematics
__Q&P Page/s < > APFR:

7. B2 3/1 – SHM Dynamics Cart EXPs

__LabQuiz + Discuss
__Q&P Page/s < > APFR:

8. r 3/2 – SHM Dynamics Cart EXPs

__Experiment: Inclined to Oscillate II:
Doubling Up and Velocity
__Job: The Jiggler

9. F 3/3 – SHM Dynamics Cart EXPs

__Finish: Inclined to Oscillate II
__LabQuiz + Discussion
__Q&P Page/s < > APFR:

10. M 3/6 – SHM Dynamics Cart EXPs

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

11. B1 3/7 – Bungee Bounce & Beyond

__YouTube Physics: Baird Bungee Bounce
__PhETLab: Spring To Another World†

12. r 3/9 – Wrap Up

__Test Correction MasterMind

13. F 3/10 – Unit Test AP1.08

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 AP1.07 as soon as possible; no later than Friday, 2/17. Remember, notecards cannot be used on make-up tests.

†**Flipped**: complete these *outside* of the classroom if class time doesn’t permit