

Rio Americano High School AP Physics 1

AP1.10 Waves & Resonance

[3/9/18]

1. T 3/13 – Introduction to Waves

- __Springboard: Introduction to Waves
- __TechLab Springboard: High Quiet Low Loud
- __Read Guide: Making Waves 1 & 2
- __Complete Job: Wave Basics
- __Complete Q&P < >

2. W 3/14 – Vibrations and Sound

- __Demonstration: Slow-Motion Wobbler
- __Demonstration: Bell Jar
- __Demonstration: Science is Fun!
- __Read Guide: Making Waves 3 & 4
- __Complete Q&P < >

3. r 3/15 – Waves Film

- __Mechanical Universe: *Waves* (College)
- __Complete Q&P < >

4. F 3/16 – Waves Simulation

- __PhETLab: Water Waves in an Electric Sink
- __Read Guide: Wave Anatomy
- __Examples: Waves
- __Complete Q&P < >

5. M 3/19 – Candy Waves

- __Lab: Connect the Dots
- __Read Guide: The Speed of Sound
- __Demonstration: Wave Machine 1
- __Complete Q&P < >

6. T 3/20 – Shock and Bow

- __Demonstration: Moving Sources
- __Video: Shock Waves and Sonic Booms
- __Complete Q&P < >

7. W 3/21 – Superposition and Interference

- __Read Guide: Harmonics
- __Demonstration: Wave Machine 2
- __Springboard: Interference in One Dimension
- __Complete Q&P < >

8. r 3/22 – Beats by db

- __TLSB: Wah-Wahs & Touch Tones
- __Complete Q&P < >

9. F 3/23 – The Speed of Sound in Room B8

- __Lab: Fork it Over
- __Complete Q&P < >

10. M 4/2 – Resonance

- __Mechanical Universe: *Resonance*
- __Complete Q&P < >

11. T 4/3 – Interference in Two Dimensions

- __Springboard: Interference in One Dimension
- __Complete Q&P < >

EXPLORATORIO 2018

12. r 4/5 – Wrap-Up TCM

Test Correction Mastermind AP1.09 – SHM

13. F 4/6 - Test AP1.10: Waves Resonance

__Prelab: Charge It

Essentials of College Physics Textbook: Chapter 13 (Waves), 14 (Sound)

Hewitt Drew It Physics Screencasts: SOUND – Vibrations and Waves, Sound

*Make up Unit Test AP1.09 SHM as soon as possible; no later than F 3/23. AP make up tests are usually administered after school only. Remember, notecards cannot be used on make-up tests. During ExploratoRio Season (between the week-long breaks), AP make-up tests are taken during two lunches: one for multiple choice; the other for free-response.