

# Rio Americano High School AP Physics 1

## AP1.10 Waves

[3/11/16]

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### 1. M 3/7 – Introduction to Waves

Springboard: Introduction to Waves  
TechLab Springboard: High Quiet Low Loud  
Guide: Making Waves 1 & 2  
Job: Wave Basics  
Q&P < > APFR:

### 2. T 3/8 – Vibrations and Sound

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

### 3. W 3/9 – Waves Simulation

TechLab: Water Waves in an Electric Sink  
Guide: Wave Anatomy  
Examples: Waves  
Q&P < > APFR:

### 4. r 3/10 – Waves Film

Mechanical Universe: Waves (College)  
Q&P < > APFR:

### 5. F 3/11 – Shock and Bow

Demonstration: Moving Sources  
Video: Shock Waves and Sonic Booms  
Q&P < > APFR:

### 6. M 3/14 – Resonance

Mechanical Universe: Resonance

### 7. B1 3/15 – Candy Waves

Lab: Connect the Dots  
Guide: The Speed of Sound  
Demonstration: Wave Machine 1  
Q&P < > APFR:

### 8. B2 3/16 – Superposition and Interference

Guide: Harmonics  
Demonstration: Wave Machine 2  
Q&P < > APFR:

### 9. r 3/17 – Beats by db

TLSB: Wah-Wahs & Touch Tones  
Q&P < > APFR:

### 10. F 3/18 – The Speed of Sound in B8

Lab: Fork it Over  
Q&P < > APFR:

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### 11. M 3/28 – Problems Day

### 12. B1 3/29 – Test Correction Mastermind

### 13. B2 3/30 - Unit Test AP1.10

Prelab: Charge It

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

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

\*Make up Unit Test AP1.07 as soon as possible; no later than F 3/11. AP make up tests are administered after school only. Remember, notecards cannot be used on make-up tests.