

# Rio Americano High School Physics – 2016 •

## PHY.09 Waves and Sound [3/11/16]

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### 1. T 3/8 – Introduction to Waves

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

### 2. W 3/9 – Vibrations and Sound

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

### 3. r 3/10 – Waves Film

Mechanical Universe: Waves (College)  
Q&P < \_\_\_\_\_ > Due:

### 4. f 3/11 – Waves Simulation

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

### 5. M 3/14 – Hewitt on Vibrations and Sound

CPA: Vibrations and Sound I  
Prelims: Connect the Dots  
Q&P < \_\_\_\_\_ > Due:

### 6. B1 3/15 – Waves of Candy!

Lab: Connect the Dots - Build  
Q&P < \_\_\_\_\_ > Due:

### 7. B2 3/16 – Candy Waves

Finish Lab: Connect the Dots  
Guide: The Speed of Sound  
Demonstration: Wave Machine 1  
Q&P < \_\_\_\_\_ > Due:

### 8. r 3/17 – Shock and Bow

Demonstration: Moving Sources  
Video: Shock Waves and Sonic Booms  
Q&P < \_\_\_\_\_ > Due:

### 9. F 3/18 – Hewitt Again

LabQuiz: Wave Activities  
CPA: Vibrations and Sound II  
Q&P < \_\_\_\_\_ > Due:

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### 9. M 3/28 – Cosmos

Episode VIII: Travels in Space and Time

### 10. B1 3/29 – Seeing Sound

TLSE: See Sounds  
Q&P < \_\_\_\_\_ > Due:

### 11. B2 3/30 – Sound Matching

TLSE: Match Sounds  
Q&P < \_\_\_\_\_ > Due:

### 12. r 3/31 – TCJ Day\*

TCJ Quiz PHY.07 + TC Journal PHY.08  
Homework PHY.09 return

### 13. F 4/1 – Unit Test PHY.09 - No Foolin'!

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*Conceptual Physics* Textbook: Chapter 25 (Waves), 26 (Sound)

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

\*All TCJ work must be completed prior to TCJ Day

Make up Unit Test PHY.08 as soon as possible; no later than F 3/18.