

Sound Waves Unit

- ✓ Complete 4-Week Unit
- ✓ Day-by-Day Teaching Schedule
- ✓ Interactive & Engaging
- ✓ Google & Office Ready



UPGRADE to the Bundle

Physics 1 Curriculum Bundle

- ✓ Complete Physics 1 Curriculum
- ✓ Google & Distance Learning Ready
- ✓ Engaging, Inquiry-Based Lessons
- ✓ Comprehensive Coverage

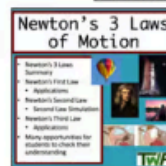


Complete Lessons

Make sure your students are on track

Student copies with blanks

Videos embedded right into your presentations



Interactive and Engaging Activities

- Lab Station Activities
- Digital Scavenger Hunts
- Reading Comprehensions
- Speed Quizzing
- Digital Interactive Notebooks
- Task Card Activities



CLICK HERE



Save 70% and get the FULL Year Curriculum

Sound Waves

Complete Unit

Includes:

- 4 weeks of teaching resources
- 6 Lessons in Office and Google
- 1 Unit Test and Quiz with Answer Key
- 2 Lab Station Activities
- 1 Digital Scavenger Hunt
- 1 Reading Article and Review Activity
- Digital Interactive Notebook

Lessons:

Lesson 1 – Waves - an Introduction

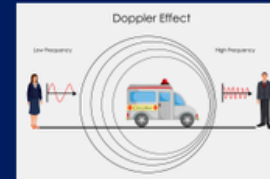
Lesson 2 – Reflection, Interference, and Transmission

Lesson 3 – Standing Waves

Lesson 4 – Sound, Sound Energy, and Speed

Lesson 5 – Hearing and the Human Ear

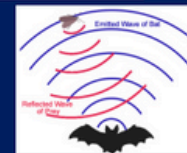
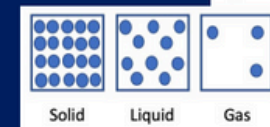
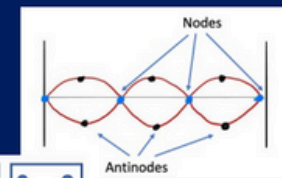
Lesson 6 – Supersonic Travel and the Doppler Effect



$$f_2 = f_1 \left(\frac{v}{v \pm v_s} \right)$$



$$v = f\lambda$$



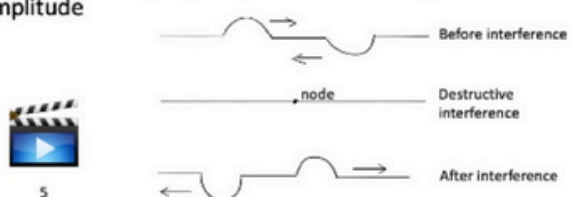
Thank you for your interest

Inside the Unit

- 3-4 weeks of teaching material
- 6 lessons
- Office and Google versions of EACH lesson
- Teacher and student versions for each lesson
- Many videos and simulations embedded into the slides
- Student notes in Word and Google Doc

Destructive Interference

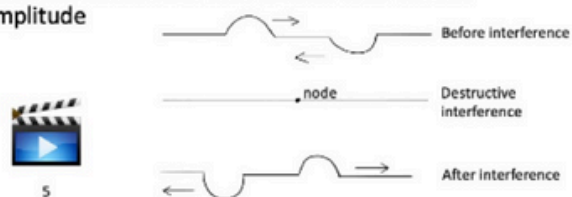
- Occurs when a crest meets a trough
 - Occurs at the node
- If both have the same amplitude and shape, they cancel each other out
- Once the waves pass, they resume their original amplitude



The diagram illustrates destructive interference in three stages. The top stage, labeled 'Before interference', shows two waves on a horizontal line: one with a crest moving right and one with a trough moving left. The middle stage, labeled 'Destructive interference', shows a flat line with a central dot labeled 'node'. The bottom stage, labeled 'After interference', shows the two waves passing each other and continuing in their original directions. A small icon of a clapperboard with the number '5' is in the bottom left corner.

Destructive Interference

- Occurs when a crest meets a trough
 - Occurs at the node
- _____
- Once the waves pass, they resume their original amplitude



This diagram is identical to the one above, showing the stages of destructive interference: 'Before interference' (crest and trough approaching), 'Destructive interference' (flat line at the node), and 'After interference' (waves passing). It includes the same clapperboard icon with the number '5' in the bottom left corner.

The Lessons

Waves Introduction

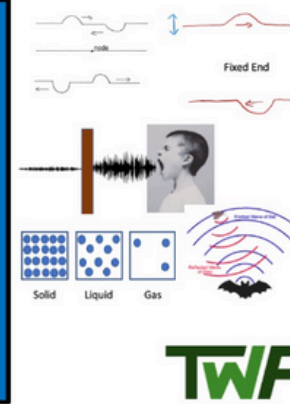
- What Waves Are
- Types of Waves
- Transverse vs. Longitudinal Waves
- Frequency, Hertz, Period
- Amplitude
- Crests, Troughs, and Wavelength
- Universal Wave Equation



This digital presentation includes both Google and Office resources and is Google Classroom Ready

Transmission, Reflection, and Interference

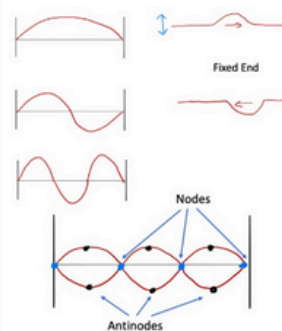
- Wave Behavior
- Sound Behavior in Different Mediums
- Transmission of Sound
- Sound in Space
- Sound Reflection
- Echolocation
- Interference of Waves – Constructive and Destructive



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Standing Waves

- Wave Reflection
- Interference
- Standing Waves
- Nodes and Antinodes
- Scientific and Musical Names

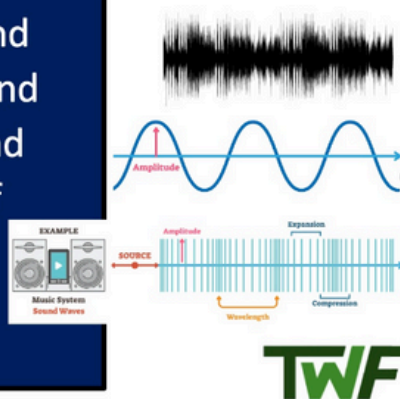


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The Lessons

Sound, Sound Energy and Speed

- Hearing Sound
- Creating Sound
- Moving Sound
- The Speed of Sound
- Practice

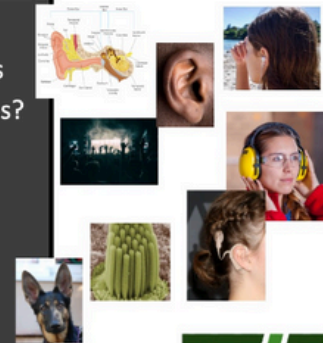


TWF

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Hearing and the Human Ear

- Hearing Frequencies
- Hearing Loss and Earbuds
- What Causes Hearing Loss?
- Hearing Stats
- Hearing Loss Prevention
- Sound Intensity
- Anatomy of Hearing
- Vertigo
- Hearing Aids

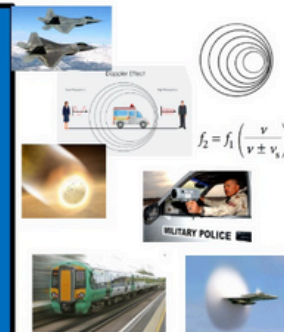


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Supersonic Travel and the Doppler Effect

- The Doppler Effect and Shift
- Calculating Observed Frequency
- Applications
- Supersonic Travel
- Mach Speed
- Supersonic Flight
- Sound Barrier
- Supersonic Travel and Sonic Booms
- Vapor Cone



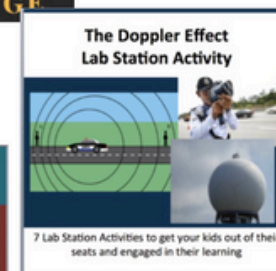
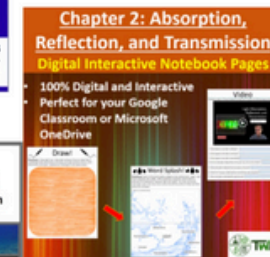
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Thank You For Your Interest

Aside from the lessons, the Unit also contains:

- 1 Unit Test and Quiz with Answer Key
- The Doppler Effect - Lab Station Activity
- Refraction - Lab Station Activity
- Hearing - Digital Scavenger Hunt
- STEM Activity
- Tinnitus— Reading
- Digital Interactive Notebook



Buyer Comments

- "The waves and sound unit simplified my planning and made life easier when I was struggling to figure out how to start the last unit of my physics class."
- "Thanks for the time saving organization!"
- "Thanks. Answer keys are always time savers and appreciated
- Big time saver for me"
- "Great Product :)"
- "Great, well organized resource that saved me a ton of time in planning my lessons on waves! Thanks so much!"
- "Excellent addition to my notes! I love it!"
- "This was INCREDIBLY helpful in developing my unit on Waves. Saved me so much time! Thank you for providing the slideshows in an editable format so I could tweak for my class's needs."