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Name: \_\_\_\_\_

#### Wave Properties – Station 1

Waves have a property called amplitude. The amplitude of a wave describes how much \_\_\_\_\_ it has. It is measured from the line of origin to the top of the wave (the \_\_\_\_\_). Or it can be measured from the line of origin to the bottom of the wave (the \_\_\_\_\_). Amplitude is related to the volume or \_\_\_\_\_ of a sound. When a wave has big amplitude, the sound will be \_\_\_\_\_. When a wave has small amplitude the sound will be \_\_\_\_\_. Volume is measured in decibels.

loud	crest	trough
energy	loudness	soft

1. Draw a wave that would be **soft**. Is the amplitude big or small? \_\_\_\_\_

2. Draw a wave that would be **loud**. Is the amplitude big or small? \_\_\_\_\_

3. Get a handout with the pictures and waves. Cut each one out along the lines. Put the pictures in order from loudest to softest. Put the waves in order from loudest to softest. Glue them on the back of this sheet.

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Name \_\_\_\_\_ KEY \_\_\_\_\_ Date \_\_\_\_\_

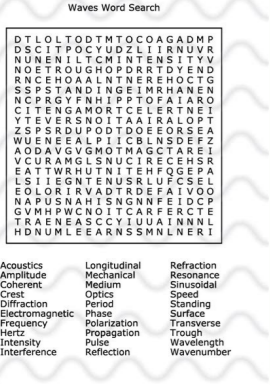
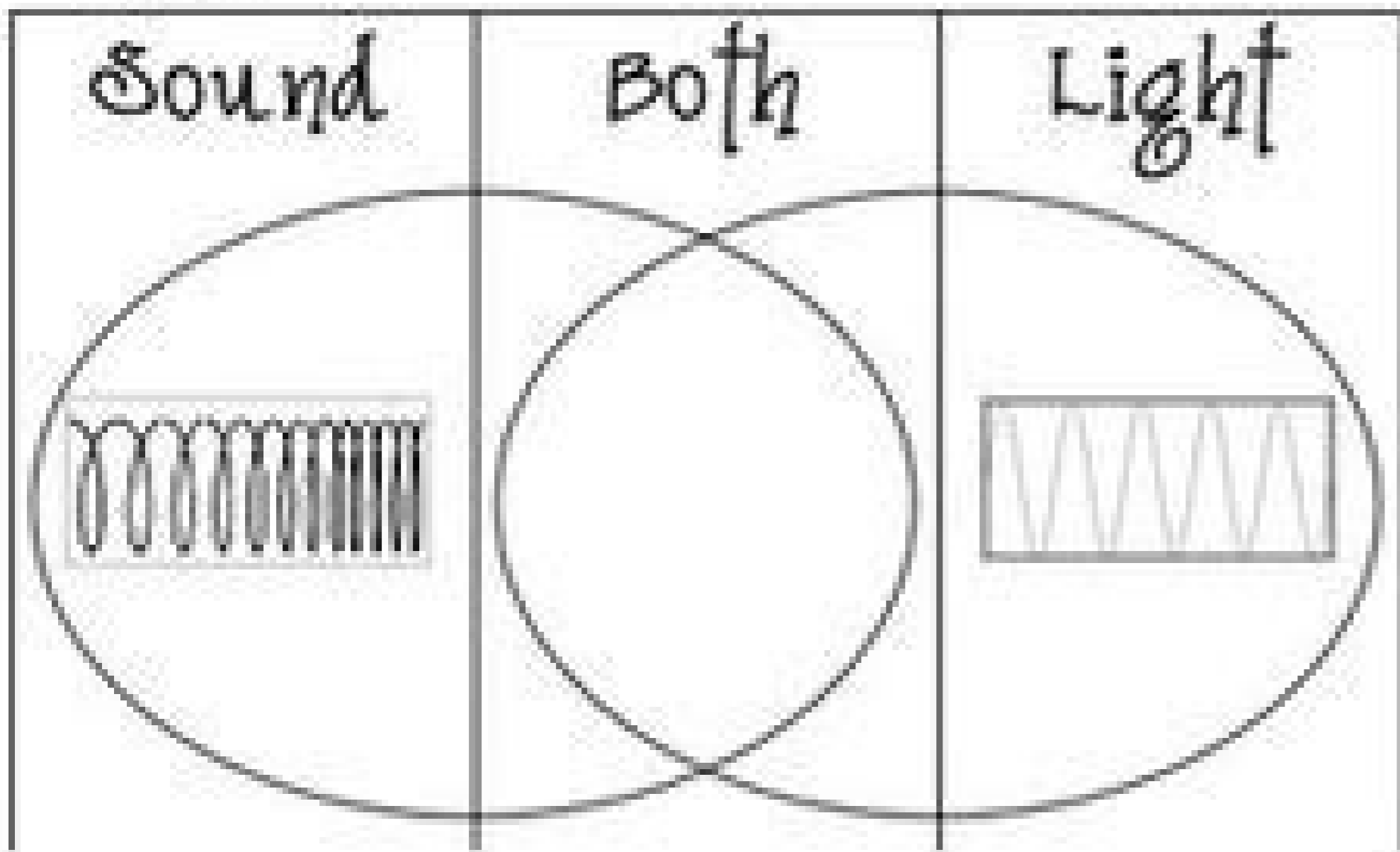
### Bill Nye: Waves

1. You and I see, hear, and think with **waves**.
2. Waves carry **energy**.
3. The wave in the speaker, on the screen, in the air, and in the string are all **different** forms of the same energy. They are all waves.
4. Low frequency waves are **farther** apart.
5. The faster you vibrate the spring, the **shorter** the wavelength will be.
6. Energy travels through the wave out in **all** directions.
7. All waves have a similar **shape**.
8. **Examples** of electromagnetic waves are light, x-rays, microwaves, radar, radio and television signals.
9. **X-rays** have so much energy that they can go through your skin and muscle until they hit your bone.
10. Earthquakes can **travel** in waves.
11. Earthquake waves are called **seismic** waves.
12. Sonar uses sound waves to find things **underwater**.

Inside:

Sound	Both	Light
Caused by _____ or the back and forth movement of matter	Can move through empty space, also known as a _____	Travels through matter as compression waves
Also known as transverse waves, they move up and down like ocean waves	Travel in the form of _____	A form of energy
Moves thousands of times faster than _____ waves	Travels fastest through _____ matter because the particles are packed tightly together	Can't exist in empty space, also known as a _____

Cover:



Chapter 18 The Electromagnetic Spectrum and Light

Name \_\_\_\_\_

Section 18.2 The Electromagnetic Spectrum

Period \_\_\_\_\_

(pages 529-545)

Date \_\_\_\_\_

This section identifies the waves in the electromagnetic spectrum and describes their uses.

1. Complete the table for the electromagnetic spectrum. List at least two uses for each kind of wave.

The Electromagnetic Spectrum		
Type of Wave	Use #1	Use #2

The Waves of the Spectrum

2. Is the following sentence true or false? (circle one - If it is false change it to make it true).

William Herschel determined that the temperature of colors of light was higher at the blue end and lower at the red end.

3. Herschel's curiosity led him to conclude there must be invisible \_\_\_\_\_ beyond the red end of the color band.

4. Is the following sentence true or false? (circle one - If it is false change it to make it true).

The full range of frequencies of electromagnetic radiation is called the electromagnetic spectrum.

5. Name each kind of wave in the electromagnetic spectrum, from the longest to shortest wavelength.

Radio Waves

6. Circle the letter of each way that radio waves might be used.

- a. x-ray machines
- b. microwave ovens
- c. radio technology
- d. television technology

7. Explain the difference between amplitude modulation (AM) and frequency modulation (FM)?

8. How do microwaves cook food?

Sound wave worksheets. Sound worksheet answer key. Sound wave worksheet middle school. Sound worksheet answers.

In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. This lesson includes 1 additional question for subscribers. Are your students having a difficult time understanding sound waves? Use this download to help your students practice solving problems with sound waves with these engaging worksheets! This resource is great for AP Physics 2 and High School Physics and science students to practice the fundamentals of Physics and explore mechanical waves! By completing this assignment, your students will be able to explain the characteristics of a sound wave. Explain mechanical, longitudinal, and pressure waves. Explain how sound waves are produced. Calculate the wave speed and explain whether a sound wave is ultrasonic, audible, or infrasonic based on the wave's frequency. Using wave speed to determine the medium a sound wave travels in. What is included? 1 Sound Wave Summary Table 4 Worksheets 4 Answer Keys 1 Coloring Sheet (For students to de-stress from the arduous mental demands of physics) :D Similar Products You Might Like Resistivity Madlib Mayhem Activity: Notes and Worksheets Electric Current Coloring Challenge: Notes and Worksheets Coulomb's Law Coloring Challenge: Notes and Worksheets Electrostatics: Electric Charge and Conservation of Charge Investigation Activity: Electric Force vs Gravitational Force Ohm's Law Coloring Challenge: Notes and Worksheets Simple Circuit Diagrams: Notes and Worksheets Circuit Power Coloring Challenge: Notes and Worksheets Resistors in Series Practice Problems: Notes and Worksheets Resistors in Series Coloring Challenge: Notes and Worksheets Resistors in Parallel Practice Problems: Notes and Worksheets Resistors in Parallel Coloring Challenge: Notes and Worksheets Analyzing Series Circuits: Notes and Worksheets Analyzing Parallel Circuits: Notes and Worksheets Analyzing Combination Circuits: Notes and Worksheets Analyzing Scalar and Vector Quantities: Notes and Worksheets Analyzing Distance and Displacement: Notes and Worksheets Analyzing Speed and Velocity: Notes and Worksheets Analyzing Acceleration: Notes and Worksheets Analyzing Position Vs Time Graphs: Notes and Worksheets Analyzing Velocity Vs Time Graphs: Notes and Worksheets Newton's Law of Motions: Notes and Worksheets Applying Newton's 2nd Law of Motion: Notes and Worksheets Keep Your Team on Check: Team Evaluation Form Applying the Work Formula: Notes and Worksheets Analyzing the Kinetic Energy Formula: Notes and Worksheets Analyzing the Potential Energy Formula: Notes and Worksheets Analyzing Mechanical Energy: Notes and Worksheets Analyzing the Power Formula: Notes and Worksheets Work, Energy, and Power Unit Bundle Electric Field Practice Problems: Notes and Worksheets Momentum and Impulse Practice Problems: Notes and Worksheets Conservation of Linear Momentum Inelastic and Elastic Collisions: Notes and Worksheets Analyzing the Wave Equation: Notes and Worksheets Customer Feedback Don't forget that leaving feedback earns you points toward FREE TPT purchases! Also, follow me and be notified when new products are uploaded. New products are always 50% off for the first 24 hours they are posted. It pays to follow me! If you have any questions, please do not be afraid to contact me! I am here to help and your constructive feedback helps me create better products. Thank you, Mr. Santana

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