

me: _____
 Period: _____

Due today!

Sound

Ch 13:1

What is Sound?

Sound is the movement of compression waves (longitudinal waves) hitting our ears. These compression waves are alternating high and low pressure areas. The air molecules vibrate back and forth, but don't move.



Speakers imitate sounds by pushing air and causing vibrations.

Sound Wave Moving Through Air Molecules



Tiny hairs inside the cochlea (inner ear) translate air pressure into electrical impulses that can be read by the brain.



How we graph sounds



Sound needs a medium to travel through. Sound cannot travel through the vacuum of space. *Space is silent* (no matter what you hear in the movies).



Frequency = Pitch

We hear the frequency of sound as *pitch*. A higher frequency we hear as a higher pitch. A lower frequency we hear as a lower pitch.

Higher Frequency = Higher Pitch

Frequency (Hz)	Wavelength (m)	Source
20 Hz	17 m	rumble of thunder
100 Hz	3.4 m	bass guitar
2,000 Hz	17 cm	fire truck siren
5,000 Hz	7 cm	highest note of piano
10,000 Hz	3.4 cm	whine of a jet turbine



Elephants and submarines use *infrasound* sound (too low to hear) to communicate over long distances. Very low frequencies (very bass) travel for very long distances and can penetrate through water (just like thru cars).

Humans can hear frequencies that are between 20 Hz and 20,000 Hz!

Dog whistles use *ultrasonic* frequencies — frequencies above human hearing, but perfect for dog ears!



Amplitude = Loudness

We hear pressure (the amplitude) of sound as *loudness*. It takes more energy to create a louder sound. Too loud of a sound can cause *deafness*.

Loudness is measured in decibels (dB)

10 - 15 dB	A quiet whisper, 3 feet away
30 dB	A house in the country
65 dB	Ordinary conversation, 3 feet away
70 dB	City traffic
90 dB	A jackhammer, 10 feet away
120 dB	The threshold of physical pain from loudness

A +10 dB change we hear as *twice as loud*.

A 30 dB sound is twice as loud as a 20 dB sound.

A -10 dB change we hear as *half as loud*.

A 30 dB sound is half as loud as a 40 dB sound.

Speed of Sound (v)

The speed of sound changes. Hotter (faster) molecules conduct sound faster. Also, just as heat travels faster in solids, so does sound.

Material	v (m/sec)
Air	340
Helium	965
Water	1530
Wood	2000
Gold	3240
Steel	5940

The speed of sound in air is about 340 m/sec (660 mph).

You can use $v = f\lambda$ to find frequency or wavelength. AND use $S = D/T$ to find distance or time (using v for S).

Ex. Find the wavelength of a 200 Hz sound.

$$v = 340 \text{ m/s}$$

$$f = 200 \text{ Hz}$$

$$\lambda = ?$$

$$v = f\lambda \text{ so } \lambda = v/f$$

$$\lambda = (340 \text{ m/s}) / (200 \text{ Hz})$$

$$\lambda = 1.7 \text{ m}$$

Ex. If you hear a sound 3 seconds after you see the motion. How far away is it?

$$v = 340 \text{ m/s}$$

$$T = 3 \text{ sec}$$

$$D = ?$$

$$v = D/T \text{ so } D = vT$$

$$D = (340 \text{ m/s}) \times (3 \text{ sec})$$

$$D = 1020 \text{ m}$$



Motion faster than sound is called *supersonic*. Supersonic planes give their speed in multiples of *Mach* (1 X the speed of sound).

Mach 1 = 340 m/s (660 mph)
 Mach 2 = 680 m/s (1320 mph)

A *sonic boom* is caused by an object breaking through the sound barrier. Supersonic planes, bullets, and bullwhips all make sonic booms.

Fairfield Chapter 13 Answer Sheet

Ramiel Nagel

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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Table of Contents Fairfield Chapter 13 Answer Sheet

1. Understanding the eBook Fairfield Chapter 13 Answer Sheet
 - The Rise of Digital Reading Fairfield Chapter 13 Answer Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Fairfield Chapter 13 Answer Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fairfield Chapter 13 Answer Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fairfield Chapter 13 Answer Sheet
 - Personalized Recommendations
 - Fairfield Chapter 13 Answer Sheet User Reviews and Ratings
 - Fairfield Chapter 13 Answer Sheet and Bestseller Lists
5. Accessing Fairfield Chapter 13 Answer Sheet Free and Paid eBooks
 - Fairfield Chapter 13 Answer Sheet Public Domain eBooks
 - Fairfield Chapter 13 Answer Sheet eBook Subscription Services
 - Fairfield Chapter 13 Answer Sheet Budget-Friendly Options
6. Navigating Fairfield Chapter 13 Answer Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Fairfield Chapter 13 Answer Sheet Compatibility with Devices
 - Fairfield Chapter 13 Answer Sheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fairfield Chapter 13 Answer Sheet
 - Highlighting and Note-Taking Fairfield Chapter 13 Answer Sheet
 - Interactive Elements Fairfield Chapter 13 Answer Sheet
8. Staying Engaged with Fairfield Chapter 13 Answer Sheet

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fairfield Chapter 13 Answer Sheet
9. Balancing eBooks and Physical Books Fairfield Chapter 13 Answer Sheet
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fairfield Chapter 13 Answer Sheet
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fairfield Chapter 13 Answer Sheet
- Setting Reading Goals Fairfield Chapter 13 Answer Sheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fairfield Chapter 13 Answer Sheet
- Fact-Checking eBook Content of Fairfield Chapter 13 Answer Sheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web microscope prepared slides of onion allium root tips procedure obtain a prepared slide of an onion root tip there will be three root tips on a slide hold the slide up to the light to see the pointed ends of the root sections this is

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web dec 28 2013 the root meristem contains a high proportion of cells in mitosis 1 3 plant systems had a major part in early investigations of the genetic changes caused by mutagenic chemicals and radiation one of the most suitable plants for detecting different types of xenobiotics is allium cepa l

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web onion root mitosis allium root tip by joseph c rossi it is common to see photomicrographs of onion root cells when demonstrating how cell division takes place in plants onions have larger chromosomes than most plants and stain dark the chromosomes are easily observed through a compound light microscope

mitosis in an onion root the biology corner - Oct 06 2022

web procedure you will be given a slide of allium which is an onion root tip growth occurs when cells divide so the root tips should have several cells in the process of cell division view the root tip under the microscope and search for organized blocks of cells where nuclei are plainly visible

allium root tips mitosis prepared microscope slide hbarsci - Nov 07 2022

web prepared slide with allium root tips longitudinal section showing cells in all stages of mitosis with dna stained to clearly show chromosomes useful for exploring structure function connections as per ngss standards expertly prepared and labeled for easy identification available in single slide 10 pack and 25 pa