

CHAPTER 17 MECHANICAL WAVES AND SOUND SECTION 174 HEARING

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What property of a sound wave can cause damage to hearing? Very loud sounds cause waves in the inner ear that are so violent, they can damage hair cells' stereocilia. Severe damage will even kill hair cells.

What condition must be fulfilled for hearing a sound? There must be a vibrating body capable of transferring energy. There must be a material medium to pick up and propagate energy. The medium must have a large density. There must be receiver to receive the energy and interpret it.

What is a mechanical wave caused by a vibration and which we can hear? A sound wave is the pattern of disturbance caused by the movement of energy traveling through a medium (such as air, water or any other liquid or solid matter) as it propagates away from the source of the sound. Sound waves are created by object vibrations and produce pressure waves, for example, a ringing cellphone.

Can mechanical waves be heard? picking a guitar string, generates a mechanical waves that propagates the guitar string, and the human can hear the sound generated by the vibration of the guitar string.

How does sound damage your hearing? If sounds are loud, they move the fluid in the inner ear more, and that can damage the hair cells. Hair cells that are damaged by loud sounds do not send signals to the brain as well as they should. The first hair cells that are hurt are those that send high-pitched sounds to the brain.

How do sound waves affect the ear? The sound waves enter the inner ear and then into the cochlea, a snail-shaped organ. The cochlea is filled with a fluid that

moves in response to the vibrations from the oval window. As the fluid moves, 25,000 nerve endings are set into motion.

What are the two conditions necessary for hearing a sound? 1) There must be a vibrating body which should be capable of transferring its surroundings. 2) There must be a material medium to pick up energy and then propagate it in forward direction.

How loud does something have to be to cause permanent hearing loss? Sounds at or below 70 A-weighted decibels (dBA), even after long exposure, are unlikely to cause hearing loss. However, long or repeated exposure to sounds at or above 85 dBA can cause hearing loss. The louder the sound, the shorter the amount of time it takes for NIHL to happen.

What are the 3 steps required for hearing? Your outer ear directs sound waves to your eardrum and causes it to vibrate. These vibrations move through your middle ear and into your inner ear. Finally, these signals travel to your brain, which translates them into what you hear.

Why is a sound wave a mechanical wave? Sound waves are classed as mechanical waves because they pass through a physical medium such as air, liquids like water, or metals like silver.

What are 5 examples of mechanical waves? There are three types of mechanical waves: transverse waves, longitudinal waves, and surface waves. Some of the most common examples of mechanical waves are water waves, sound waves, and seismic waves. Like all waves, mechanical waves transport energy.

How do mechanical waves form? Mechanical waves require a medium or some type of matter in order to transfer their energy. They are created when a force (like an earthquake, wind, vibration, etc.) acts on a medium causing it to move. Mechanical waves carry the energy away from the source; this is called propagation.

What are the three types of sound? Sound waves are characterized into three types. Audible sound waves are those that humans can hear. Infrasonic waves are those that are too low-frequency (below 20 Hz) for humans to hear. Ultrasonic sound waves are those that are too high-frequency (above 20,000 Hz) for humans

to hear.

What wave Cannot exist in a vacuum? Sound waves cannot travel in the vacuum of space because there is no medium to transmit these mechanical waves. Classical waves transfer energy without transporting matter through the medium.

What is the sound of waves called? The literary word is usually 'susurration'. This derives from the Latin verb 'susurrare', meaning to whisper, so is strictly appropriate only for gentle waves. Larger waves are sometimes said to thunder.

How can sound waves cause damage? “Under certain conditions, sound waves cause the formation of small bubbles that rapidly implode and release an intense shock wave that produces enormous amounts of heat energy and a variety of highly active radicals, which can completely destroy adjacent material.”

What is a property of a sound wave? The 3 main properties of sound waves are amplitude, wavelength, and frequency. The amplitude, wavelength, and frequency of a sound wave determine how the sound is perceived and are affected by the amount of energy used to create the sound. The amplitude, or height of the sound wave determines its loudness.

Which property of a wave affects how loud a sound is? Properties of sound The amplitude of a sound wave is related to the volume of the sound: large amplitude sound waves are loud; small amplitude sound waves are quiet.

What physical properties of sound are important for hearing? Thus, the cochlea sends neural information to the brainstem and brain via the auditory nerve about the three physical properties of sound: frequency, temporal variation, and level. The biomechanical response of the cochlea is very sensitive to sound, is highly frequency selective, and behaves in a nonlinear manner.

What is the summary of the Narrative of the Life of Frederick Douglass? Overview. Narrative of the Life of Frederick Douglass is an autobiography by Frederick Douglass that was first published in 1845. Douglass escaped from slavery in 1838 and became a prominent abolitionist, orator, and writer. His autobiography describes his experiences under slavery and his eventual freedom.

What is the point of the Narrative of the Life of Frederick Douglass? Through vivid and poignant prose, Douglass exposes the dehumanizing effects of slavery and challenges prevailing notions about race and equality in 19th-century America. Douglass's narrative provides a firsthand look at the harsh realities of slavery and the pervasive racism of his time.

What is the narrative and the life of Frederick Douglass? Narrative of the Life of Frederick Douglass is an 1845 memoir and treatise on abolition written by famous orator and former slave Frederick Douglass. It is generally held to be the most famous of a number of narratives written by former slaves during the same period.

What are the big ideas in the Narrative of the Life of Frederick Douglass? Narrative of the Life of Frederick Douglass is full of blistering critiques of slave owners who feign religious piety. Douglass's experience often shows that the white southerners who participate most zealously in religious activities are often the same ones who treat slaves most inhumanely.

What is the central idea of Frederick Douglass narrative? Answer: The central idea of Narrative of the Life of Frederick Douglass is slavery, and how it affected not only slaves but also slaves holders.

How does the Douglas narrative end? Abolition and Slavery Narrative of the Life of Frederick Douglass ends with Douglass escaping from slavery and gaining his freedom. Many other enslaved people did not have that opportunity.

What is Frederick Douglass' most famous quote? #1 "If there is no struggle, there is no progress."

Why would slaveholders want ignorant slaves? White slaveholders did not want their slaves to know anything about or understand their personal identity. This information was the first step towards literacy, which slaveholders feared would empower enslaved people to recognize the dehumanization and manipulation that they were being subjected to.

How many slaves did Frederick Douglass free? Frederick Douglass was a runaway slave who became one of the most influential abolitionists in the years leading up to the Civil War. Through his work with the Underground Railroad, it is

estimated that at least 400 runaway slaves were helped by Douglass and his wife.

What were the major events in Frederick Douglass' life?

What did the Narrative of the Life of Frederick Douglass emphasize? The key to the originality and import of Douglass's rendition of his life, in contrast to that of most other fugitive slave narrators, is his emphasis on the psychological and intellectual struggle that he waged against slavery from his early childhood on Maryland's Eastern Shore.

What does the Narrative of the Life of Frederick Douglass claim? Douglass' primary claim in his narrative is that a nation predicated upon individual freedom cannot allow slavery to exist. His first hand accounts of the cruel nature of slavery and the thought processes of the various slave owners help to substantiate his assertion.

What was the main message of the narrative of Frederick Douglass? Frederick Douglass' narrative is the story of his life as an American enslaved person. Its purpose was to educate people about the cruelty of slavery and to demonstrate that Black people are just as intelligent and capable of success as white people.

What can we learn from Frederick Douglass narrative? Douglass narrative teaches about self-determination and courage. Despite the suffering he underwent under different slave-masters including in Covey's hand, he did not lose hope. He was determined to escape whether it meant losing his life. It is this determination that would help slaves overcome the unending slavery.

What is the theme of the Frederick Douglass speech? Throughout his speech, Douglass highlights American hypocrisy by outlining the vast dissonance between the abstract ideals central to American identity and the actual practices of the American government and populace.

What is the main idea of the narrative? The main idea of a story is the central idea or concept that the author wants to portray through the narrative, characters, and settings. The main idea can either be explicit, which means it's directly stated in the story, or it can be implied, which means it's not directly stated in the story.

What point of view is Narrative of the Life of Frederick Douglass told in? First Person (Central) Even though Douglass is the book's narrator, he is a bit older than he was when he was living the events he's telling us about.

What is the thesis statement of the narrative of the Frederick Douglass? In a Narrative of the Life of Frederick Douglass: An American Slave written by himself, the author argues that no one can be enslaved if he or she has the ability to read, write, and think.

What was the most painful thought Frederick had about escaping to freedom? It is my opinion that thousands would escape from slavery, who now remain, but for the strong cords of affection that bind them to their friends. The thought of leaving my friends was decidedly the most painful thought with which I had to contend.

What does Douglas regret in his memories of his parents? In his Narrative of the Life, Douglass does not state any regrets about his parents, only contempt for the circumstances in which he and so many other slaves found themselves. He mentions at the outset that he was separated from his mother while he was still an infant, which he notes was 'a common custom.

What two painful thoughts haunt Douglas? Two painful thoughts that haunt Douglass is if he would ever leave his friends. The second thought is the idea that he may be taken away again and become a slave. Douglass changed his name when he got to New Bedford because so many people were named Johnson and he wanted to be different.

What did Abraham Lincoln say to Frederick Douglass? ' I said, 'Mr. Lincoln, I must not detain you with my poor opinion, when there are thousands waiting to shake hands with you. ' 'No, no,' he said, 'you must stop a little, Douglass; there is no man in the country whose opinion I value more than yours. I want to know what you think of it?

What were Frederick Douglass's powerful words?

What did Frederick Douglass do to end slavery? In 1861, the nation erupted into civil war over the issue of slavery. Frederick Douglass worked tirelessly to make sure that emancipation would be one of the war's outcomes. He recruited Black men to

fight in the U.S. Army, including two of his own sons, who served in the famous 54th Massachusetts Volunteer Infantry.

Who were the worst slaveholders according to Douglass? For of all slaveholders with whom I have ever met, religious slaveholders are the worst. I have ever found them the meanest and basest, the most cruel and cowardly, of all others. It was my unhappy lot not only to belong to a religious slaveholder, but to live in a community of such religionists.

Why did Frederick Douglass rarely see his mom? Why does Frederick only rarely see his mother? She was sent to a different plantation after Frederick was about 12 months.

Why were Frederick and his mother separated? Douglass is separated from his mother soon after birth—a common practice among slave owners. Douglass assumes that this custom is intended to break the natural bond of affection between mother and child.

Student Exploration: Plants and Snails Gizmo Answer Key

1. What is the purpose of this simulation?

The purpose of this simulation is to explore the relationship between plants and snails. Students will investigate how the presence or absence of plants affects the growth and reproduction of snails.

2. What are the different variables that can be manipulated in this simulation?

The different variables that can be manipulated in this simulation include:

- The presence or absence of plants
- The type of plant (fast-growing or slow-growing)
- The number of snails
- The amount of sunlight
- The amount of water

3. What are the different outcomes that can be observed in this simulation?

The different outcomes that can be observed in this simulation include:

- The growth rate of the snails
- The reproduction rate of the snails
- The number of snails that survive
- The amount of plants that are eaten

4. What are the conclusions that can be drawn from this simulation?

The conclusions that can be drawn from this simulation include:

- Plants provide food and shelter for snails, and snails help to disperse plant seeds.
- Fast-growing plants provide more food for snails than slow-growing plants.
- A large number of snails can eat a large number of plants, and this can lead to a decline in the plant population.
- A lack of sunlight can lead to a decline in the growth rate of plants and snails.
- A lack of water can lead to a decline in the number of snails that survive.

5. What are the implications of these conclusions for the real world?

The implications of these conclusions for the real world include:

- The importance of plants for the survival of snails
- The importance of snails for the dispersal of plant seeds
- The potential for snails to damage plant populations
- The importance of managing snail populations to prevent damage to plants

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