

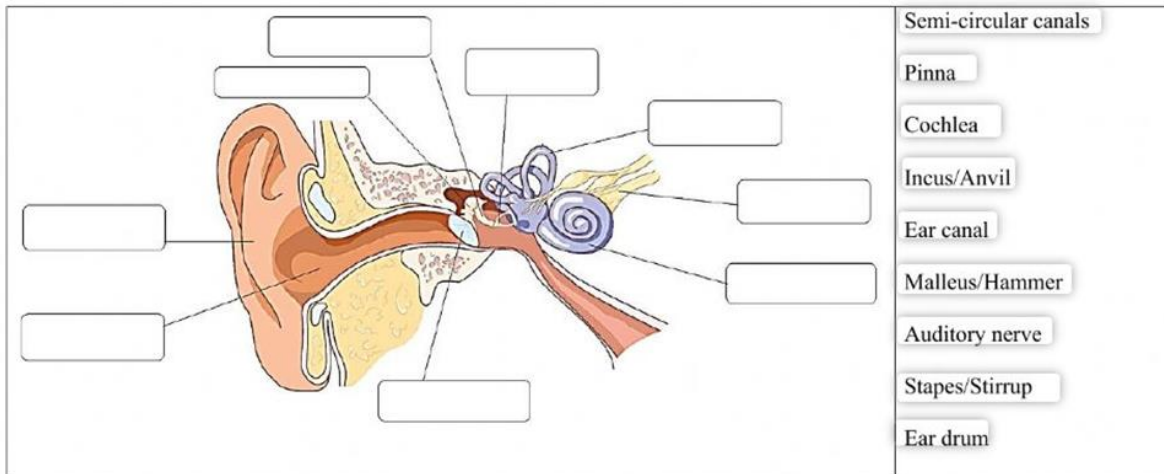
Sound Worksheet

Word bank

Sound	vibrations	particles	transmitted
cochlea	electrical	auditory nerve	interpret
medium	frequency	amplitude	frequency
timbre			

Use some of the words in the word bank to fill in the gaps

_____ is created by **vibrations** that cause air **particles** to move in waves. These waves travel through the air, and when they reach our ears, they make our eardrums vibrate. The vibrations are then _____ to the **cochlea** in our inner ear, where tiny hair cells convert them into _____ signals. These signals travel through the _____ **nerve** to our brain, which _____ them as the sounds we hear.



Sound needs a _____ such as air, solids, or liquids, to travel through. Sound waves travel most efficiently through solids because the particles are closer together, allowing the vibrations to pass easily. In contrast, sound travels slower through liquids and even slower through gases like air. The properties of sound, are such as pitch and volume, which are determined by the **frequency** and **amplitude** of the **sound waves**, respectively. Additionally, _____ helps us distinguish between different sounds, such as different musical instruments.



Lesson Game/ Activity

1. **Sound Show and Tell:** Have students bring in an object that makes an interesting sound. Each student can present their object to the class, explaining how the sound is produced and what makes it unique.

Remember to make the activities engaging and interactive to enhance the students' understanding and appreciation of the science of sound.

Assignment or Class discussion

There are people who cannot hear any sounds. What dangers do you think they may face and what can you do to help them deal with those dangers?