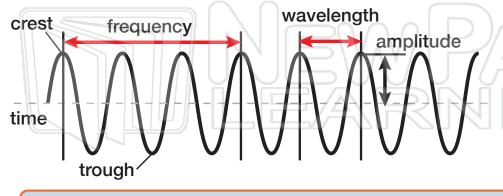


Name \_\_\_\_\_ Class \_\_\_\_ Date \_\_\_\_

**Sound** is created by the **vibrations** of an object. A **vibration** is a complete back-and-forth motion by an object. The object could be a guitar string, a drum, the diaphragm of a loudspeaker, or even your vocal cords.



Sou A was

Soun Long raref throu glass



### **PREVIEW**

Please <u>Sign In</u> or <u>Sign Up</u> to download the printable version of this worksheet

rrec <sub>hammen</sub>			
Animal	Frequency range (Hz)		
bat	2,000 to 110,000		
cat	45 to 64,000		
human	20 to 20,000		
dog	67 to 45,000		

The pitch of the sound determines how low or high a sound seems to be. The pitch of a sound depends upon the frequency of the vibrations that cause it.

ngth

The frequency of a sound is the number of vibrations per second. Frequency is measured in units called hertz (Hz).



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

The loudness of a sound depends upon the amplitude (height of a sound wave) of the vibrations that cause it. The bigger the vibration, the greater the amplitude of the waves, and thus the louder the sound will be. The loudness of sound is measured in units called decibels (dB).

### **Decibels of Sound**

a whisper	4	10	
normal voice		60	
train horn		100	
jet plane		120	
rock concert		140	



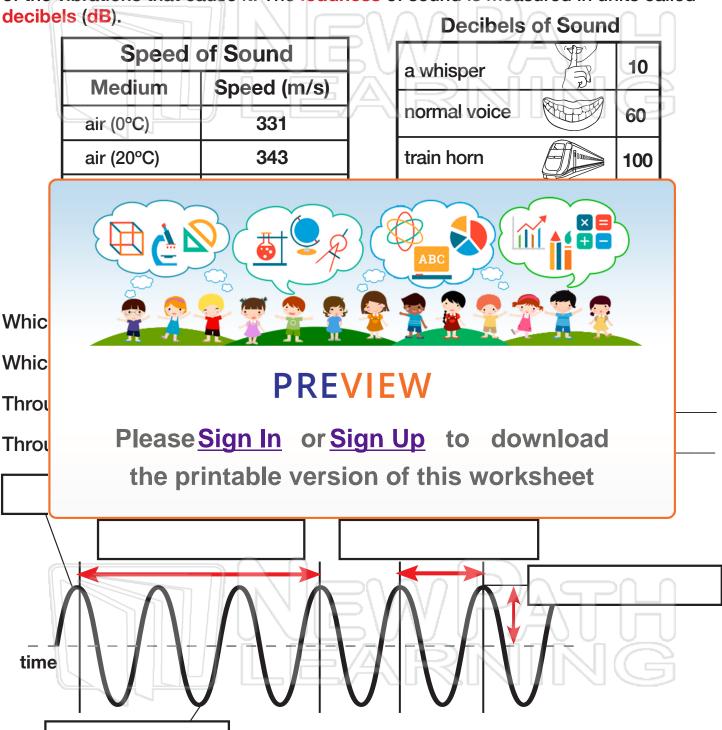


Name	Class	Data
	Class	Date

Use the charts to answer the questions. Fill in the blanks below.

Sound travels at different speeds through different matter. In general, the denser the matter, the faster sound travels through it.

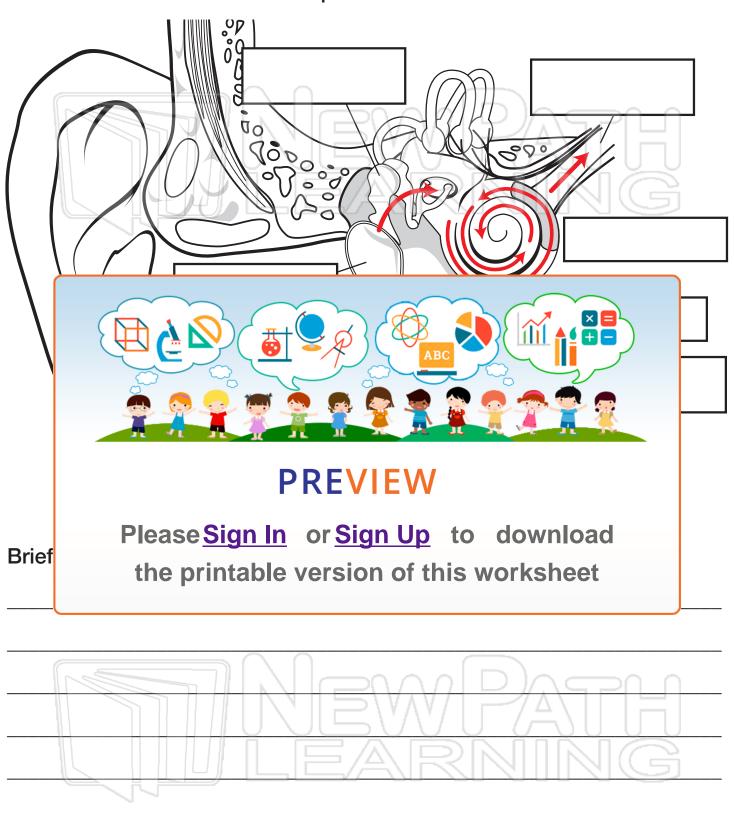
The loudness of a sound depends upon the amplitude (height of a sound wave) of the vibrations that cause it. The loudness of sound is measured in units called





Name	Olasa	D-1-	
Name	Class	Date	
INGILIC		Date	

Label parts of the ear.

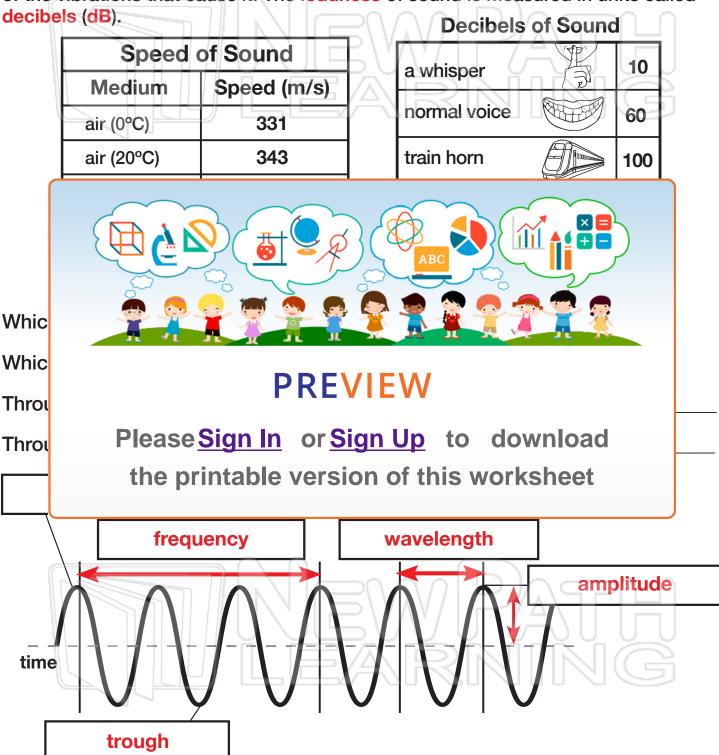


### **Answer Key**

Use the charts to answer the questions. Fill in the blanks below.

Sound travels at different speeds through different matter. In general, the denser the matter, the faster sound travels through it.

The loudness of a sound depends upon the amplitude (height of a sound wave) of the vibrations that cause it. The loudness of sound is measured in units called decibals (dR)

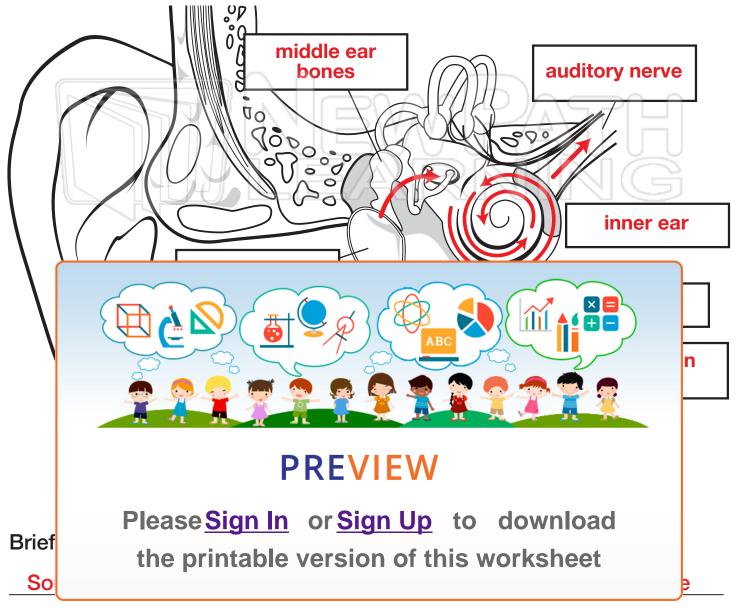


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### **Answer Key**

Label parts of the ear.



small bones in the middle ear carry these vibrations to the cochlea.

The cochlea contains tiny hairs, which vibrate and send messages to the brain that are interpreted as sound. The auditory nerve carries messages from the cochlea to the brain.