

# 8L Sound and hearing

## literacy in science

Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

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Answer all the questions below:

 Click mouse to reveal answer

1) Unscramble the following words:

viaonbrti

hitpc

aimdtuple

celibeds

2) Make three sentences using the following nine words or phrases:

sound / volume  
sound  
outer ear

measured  
pitch volume  
inner ear

decibel scale  
and tone  
ear drum cochlea

3) Match the word or phrase with the right meaning:

Decibel

This depends on the frequency of the sound wave

Pitch

This depends on the amplitude of the sound wave

Volume

Vibration traveling in waves with a pitch and amplitude

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Vibration traveling in waves with a pitch and amplitude

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## complete the sentence

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Place the right word or words to complete the sentence:

 Click mouse to reveal answer

sound

worse

transfers

pitch

frequency

protect

scale

string

echo

- a) When sound travels from a source, it\_\_\_\_\_ energy.
- b) Vibrating objects like a violin\_\_\_\_\_ are a source of sound.
- c) When sound is reflected back by a hard surface like concrete, it is called a\_\_\_\_\_ .
- d) All sounds have a\_\_\_\_\_, volume and tone.
- e) Sound volume is measured using the decibel\_\_\_\_\_.
- f) As we get older our hearing becomes\_\_\_\_\_ and our hearing range becomes less.
- g) The ear's cochlea converts\_\_\_\_\_ vibrations into nerve impulses.
- h) We can use an oscilloscope to 'see' a sound wave's \_\_\_\_\_ and amplitude.
- i) We must\_\_\_\_\_ our ears to prevent hearing damage from loud sounds.

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## complete the sentence

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Place the right word or words to complete the sentence:

sound

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echo

- a) When sound travels from a source, it transfers energy.
- b) Vibrating objects like a violin string are a source of sound.
- c) When sound is reflected back by a hard surface like concrete, it is called a echo.
- d) All sounds have a pitch, volume and tone.
- e) Sound volume is measured using the decibel scale.
- f) As we get older our hearing becomes worse and our hearing range becomes less.
- g) The ear's cochlea converts sound vibrations into nerve impulses.
- h) We can use an oscilloscope to 'see' a sound wave's frequency and amplitude.
- i) We must protect our ears to prevent hearing damage from loud sounds.