

# Sound Test Yourself 3

## Hearing

Number the sentences to show the process of how we hear the sound made by plucking guitar strings.

Hairs vibrate in the cochlea and produce electrical signals.

The ossicles begin to vibrate.

The strings on the guitar vibrate.

The auditory nerve carries electrical signals to the brain.

The air particles around the guitar begin to vibrate.

The vibrating particles enter the ear and the ear drum vibrates.

## Match and Draw

Match the terms with their definitions

frequency

The unit of frequency (Hz).

amplitude

The number of complete waves per second.

hertz

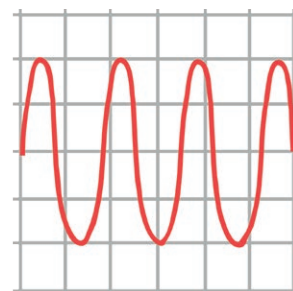
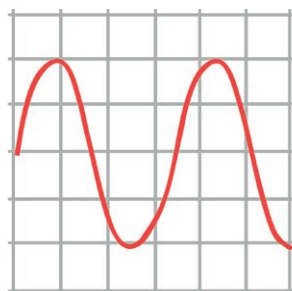
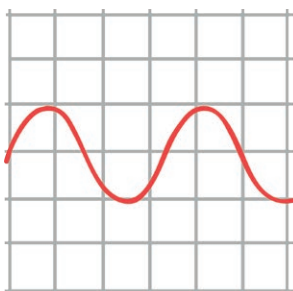
The unit used to measure the loudness of sound.

decibels

The distance from the top or the bottom to the middle of the wave.

## Sound Waves

Using the diagrams below, make 3 comparisons between the sounds produced.



# Sound Test Yourself 3 Answers

## Hearing

Number the sentences to show the process of how we hear the sound made by plucking guitar strings.

5 Hairs vibrate in the cochlea and produce electrical signals	4 The ossicles begin to vibrate	1 The strings on the guitar vibrate
6 The auditory nerve carries electrical signals to the brain	2 The air particles around the guitar begin to vibrate	3 The vibrating particles enter the ear and the ear drum vibrates

## Match and Draw

Match the terms with their definitions

frequency	The unit of frequency (Hz).
amplitude	The number of complete waves per second.
hertz	The unit used to measure the loudness of sound.
decibels	The distance from the top or the bottom to the middle of the wave.

## Sound Waves

Using the diagrams below, make 3 comparisons between the sounds produced.

**Three from:** sound 1 and 2 have the same pitch; sound 2 is louder than sound 1; sound 2 and 3 are the same loudness; sound 3 is higher pitched than sound 1 / 2.

