

8La – Sound advice

Word	Pronunciation	Meaning
cycles per second		The number of complete forward and backward vibrations made in one second.
intensity		The loudness or volume of a sound.
pitch		How high or low a note sounds.
sound waves		Sound energy carried from one place to another in the form of waves.
vibrate		Move backwards and forwards.
volume		The loudness of a sound.

8Lb – Music to your ears

Word	Pronunciation	Meaning
amplitude		Half the height of a complete wave. The sound wave for a loud sound has a large amplitude.
frequency	<i>free-kwen-see</i>	The number of waves passing a point each second.
hertz (Hz)		The unit for frequency. 1 hertz means one wave per second.
microphone		A device that detects sounds. It converts sound energy into electrical energy.
oscilloscope	<i>oss-ill-O-skope</i>	An instrument that shows a picture of a wave on a screen.
trace		The wave that is shown on an oscilloscope screen.
wave		A way of transferring energy. Light and sound both travel as waves.
wavelength		The distance between two successive identical points on a wave.

8Lc – Sound versus light

Word	Pronunciation	Meaning
medium		Any substance through which something travels is called a medium.
transferred		When energy, carried by waves, moves from one place to another.
vacuum	<i>vack-yoom</i>	A completely empty space that contains no particles.

8Ld – ‘Ear ‘ear

Word	Pronunciation	Meaning
antibiotics		Drugs used to treat infections.
cochlea	<i>cok-lee-a</i>	The part of the ear that changes vibrations into electrical impulses.
eardrum		A thin membrane inside the ear that vibrates when sound reaches it.
impulses		Electrical signals carried by a nerve cell.

8Ld – Focus on: Do dolphins talk?

Word	Pronunciation	Meaning
ultrasound		Sound waves with frequencies above 20#000#Hz, the upper limit of human hearing.

8Le – Uses and abuses/Sound development

Word	Pronunciation	Meaning
absorbed		Taken in.
decibel (dB)	<i>dess-i-bell</i>	Unit for measuring the loudness of a sound.
echo	<i>ek-O</i>	We hear a sound again when it reflects off a surface. The reflected sound is called an echo.
noise		Unpleasant sound.
sound insulators		Materials that are good at absorbing sound.
sound intensity meter		A meter that measures the loudness of a sound.
reflected		When sound bounces back off a surface.
sonar	<i>sO-nar</i>	A machine for finding the depth of the sea or finding fish by sending sound waves and listening for the echoes.
threshold of hearing		The quietest sound that can be heard.