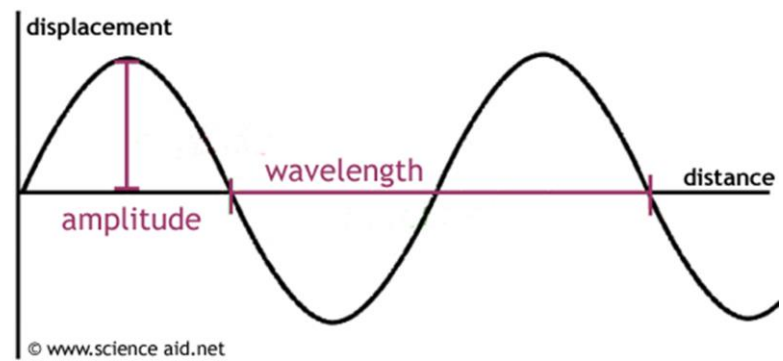


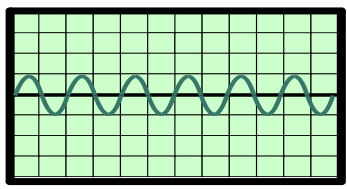
Sound Knowledge Organiser

Sound is caused by vibrations.
Sound needs a substance to travel through.
This means sound cannot travel through a vacuum, like space.
In space, no-one can hear you shout.

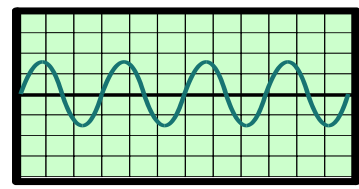


The frequency of a wave is how many peaks pass by a fixed point per second. Measured in units called Hertz, Hz.

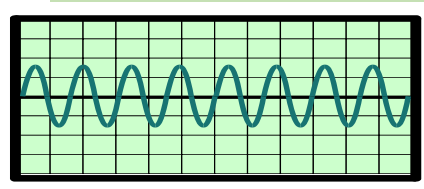
The larger the amplitude of the wave on the trace, louder the sound.



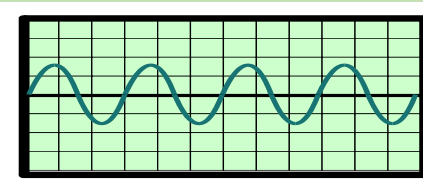
✓ A quiet sound.



✓ A louder sound.

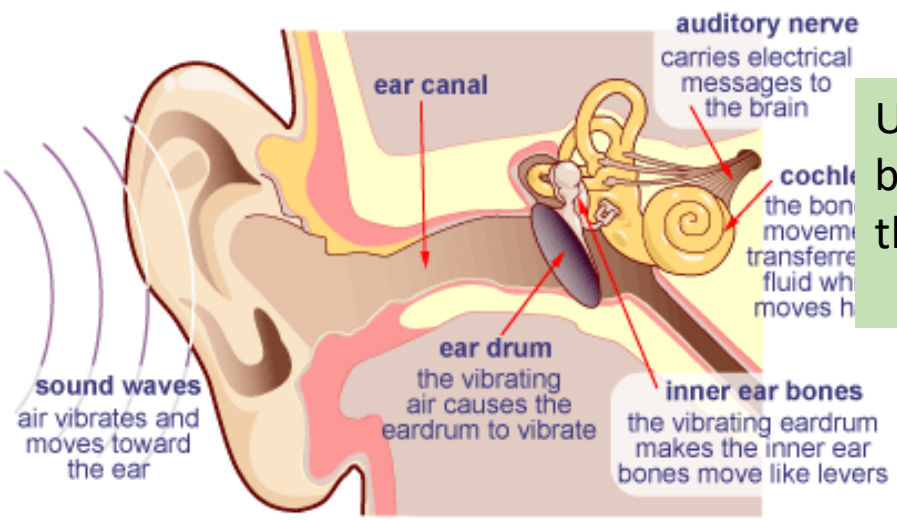


✓ A high pitch sound.



✓ A low pitch sound.

Ultrasound is sound waves with frequencies higher than humans can hear. Ultrasound is used to detect objects and measure distances, e.g. in submarines. Animals such as bats and porpoises use ultrasound for locating prey and obstacles.



Ultrasound can be used in medicine. Scanning the body with ultrasound waves can build up a picture of the body's organs, including the heart, lungs and liver.

Reflected sounds are called echos.

