

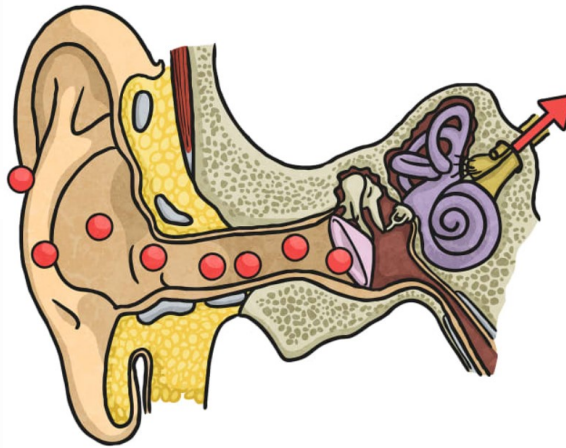
Sound Innovation

Prior Knowledge

Year 4 Science: States of matter. Which states of matter will sound travel through?

Year 1 Science: Animals including humans. Humans have 5 senses including hearing.

KS1 and KS2 music: Pitch and dynamics of music.



Key Vocabulary

Tier 1: Loud, quiet, soft, noise, sound, high, low

Tier 2: Pitch, muffle, vibration, tuning, tension, tight, sound waves

Tier 3: Amplitude, decibel, frequency

My Component Knowledge:

Lesson 1: I can explain which states of matter sound can travel through.

Lesson 2: I can identify how sounds are made, associating some of them with something vibrating.

Lesson 3: I can find patterns between the volume of a sound and the strength of the vibrations that produced it.

Lesson 4: I can explain that the shape and size of an ear has an impact on how sounds are heard.

Lesson 5: I can investigate how well sound travels through different materials.

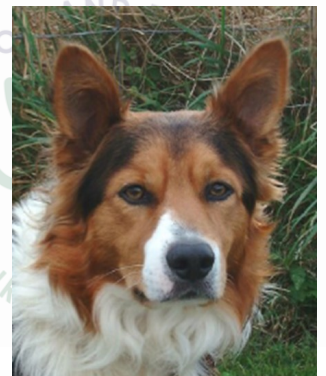
Lesson 6: I can explain how sound travels from an instrument to our ears.

My Composite Knowledge:

I understand that sound is caused by vibrations which can travel through all states of matter.

My Powerful Knowledge:

I know that all sounds are produced by vibrations that are eventually processed by our brains as recognisable sounds. I can explain how to alter the sound that a musical instrument



How can the volume an instrument be changed?

Can you draw a soundwave with a different pitch and volume?

