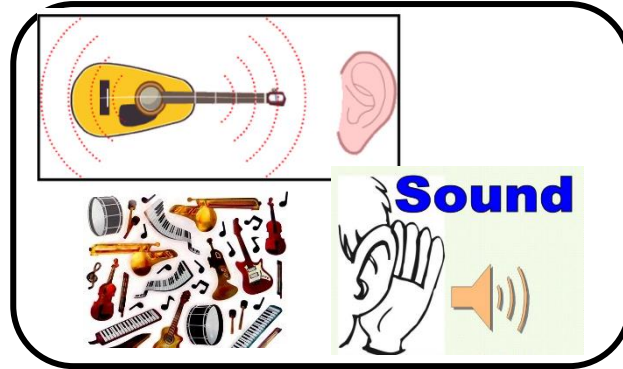




Science - Sound Year 4 Knowledge Mat



Experiments



Important Bits

Know how sound is made - vibrations/waves.

Know how sound travels from the source to the ears.

know the correlation between pitch/volume and the object producing a sound.

know what happens to a sound as it travels away from its source.

Prior Knowledge:

EYFS: Understand our senses, listen with increased attention to sound

Sticky Knowledge about _____

- Sound travels with a speed of 767 miles per hour but it cannot travel through a vacuum.
- Sound comes from vibrations. These vibrations create sound waves which move through mediums such as air and water before reaching our ears.
- Our ears vibrate in a similar way to the original source of the vibration, allowing us to hear many different sounds.
- When traveling through water, sound moves four times faster than when it travels through air

Subject Specific Vocabulary

Vibration	Sound is caused by vibrations which travel usually through air.
Pitch	Sounds have high and low pitches. Tight drum = high pitch.
Volume	How loud a sound is - depends on the intensity of the wave.
Insulation	Protects and reduces the transmission of sound.
Auditory	Refers to hearing rather than sound.
Frequency	Measures the number of waves in sound.
outer, middle and inner ear	The ear is made up of three different parts. These work together to hear and process sounds.
Cochlea	Spiral snail shell shape in your ear - helps you to hear.
Hammer	A little bone in your ear which amplifies the sound to make it louder.

