Year 4 - Spring 2 - Sound - Could we have a moon disco?			
Key Vocabulary		Prior knowledge	Sticky Knowledge
Vibration	A quick movement back and forth.	In year 1 we: - Identified and explored our senses and how we Senses	Sound is a type of energy. Sounds are created by vibrations. The louder the sound, the bigger the vibration.
Sound	Vibrations travelling from a sound source.	use them.	
ear	An organ used for hearing.		
Particles	Solids, liquids and gases are made of particles. They are so small we are unable to see them	sight	
Distance	A measurement of length between two points	taste	Pitch is a measure of how high or low a sound is. A whistle being blown creates a high-pitched sound. A rumble of thunder is an example of a low-pitched sound.
Soundproof	To prevent sound from passing through.		
Vacuum	A space where there is nothing. There are no particles in a vacuum.	smell	Faster vibrations = higher pitch Slower vibrations elower pitch elower pit
Absorb sound	To take in sound energy. Absorbent materials have the effect of muffling sound.	Knowledge and Assessment:	
Pitch	How low or high a sound is.	 Identify how sounds are made, associating some of them with something vibrating 	The size of loud the vibration
Amplitude	The size of a vibration. A larger amplitude = a louder sound	 Recognise that vibrations from sounds travel through a medium to the ear Find patterns between the pitch of a sound and features of the object that produced it Find patterns between the volume of a sound and the strength of the vibrations that produced it Recognise that sounds get fainter as the distance from the sound source increases 	is called the amplitude. Louder sounds have a larger amplitude, and quieter sounds have a smaller amplitude. quiet
Eardrum	A part of the ear which is a thin, tough layer of tissue that is stretched out like a drum skin. It separates the outer ear from the middle and inner ear. Sound waves make the eardrum vibrate		

More sticky knowledge

Sound can travel through solids, liquids and gases. Sound travels as a wave, vibrating the particles in the medium it is travelling in. Sound cannot travel through a vacuum.

Sound energy can travel from particle to particle for

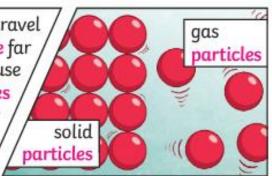
When you hit the drum, the drum skin vibrates. This makes the air particles closest to the drum start to vibrate as well.



The vibrations then pass to the next air particle, then the next, then the next. This carries on until the air particles closest to your ear vibrate, passing the vibrations into your ear.



Sound energy can trave from particle to particle far easier in a solid because the vibrating particles are closer together than in other states of matter.



Inside your ear, the vibrations hit the eardrum and are then passed to the middle and then the inner ear. They are then changed into electrical signals and sent to your brain. Your brain tells you that you are hearing a sound.



You can change the pitch of a sound in different ways depending on the type of instrument tyou are playing.

he / For example, if you are playing a xylophone, striking the smaller bars with the beater causes faster vibrations and so a higher pitched note. Striking the larger bars causes slower vibrations and produces a lower note.

If you throw a stone in a pond, it will produce ripples. As the ripples spread out across the pond, they become smaller. When sound vibrations spread out over a distance, the sound becomes quieter, just like ripples in a pond.

