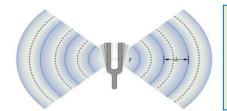
Year 4 - How do we make sounds?

Science Vocabulary	Definition		
Sound	Energy that travels in waves through air, water, or other substances, and can be heard.		
Vibration	Movement back and forth.		
Pitch	Frequency of a sound wave.		
Volume	How loud or quiet the sound is		
Insulation	Substance that stops heat, electricity or sound from passing.		

Sound is a form of energy like light. Both travel in waves and can be reflected

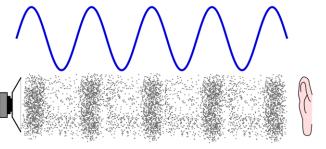
A sound vibration spreads out in all directions from its sources, like ripples from a pond.

Sound is made when something vibrates.



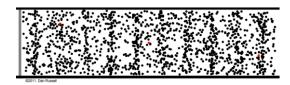
Vibration is a rapid back-and-forth movement.

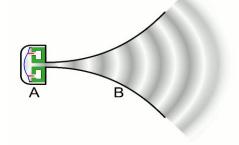
Sound waves are caused by vibrations in the air.



When an object vibrates, it causes movement in the air particles.

These air particles vibrate too and then bump into other air particles which then start to vibrate and so on.

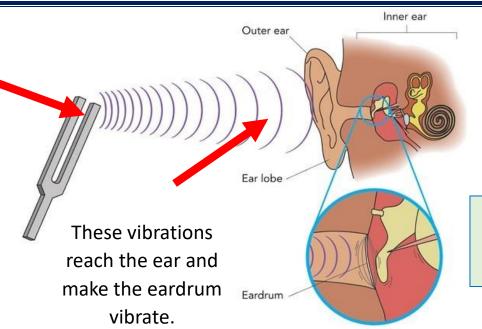




This continues in waves until the vibrations run out of energy. If the vibrations reach your ears, you will hear the sound.

Particles of air knock into each other.

The vibrations are converted to electrical signals that your brain interprets as sound.



The number of vibrations per second is called the frequency of sound.

Sound that has been reflected is called an echo.

Musical	Definition			
Vocabulary				
Pitch	How high or low the sound			
Volume	How loud or quiet the sound is.			
Beat	The steady pulse of the music like the tick of a clock)			
Tempo	The speed of the music			
1		0	<i>d</i> .	
quaver	crotchet	minim	dotted minim	
½ a beat	1 beat	2 beats	3 beats	









Big Questions

- What do we mean by truth? Is seeing believing?
- Has technology made the world a better place?
- How does understanding the past help us today/in the future?
- How does music influence the world?

History Focus: How did the Romans influence the technology we have in Britain today?

Subject Specific Vocabulary		Helmet	Exciting Book
centurion	Commander of a group of 100 Roman soldiers	Javella - Sharker Peter	Exciting Book
emperor	The ruler of the Roman Empire during the imperial period		The state of the s
aqueduct	A large system for carrying water from one place to another	Production Sward ——Shield	Romans
gladiator	An armed combatant who entertained audiences in the Roman Republic		alid Conso
amphitheatre	large, circular open air building used for entertainment	Facts about Romans in Britain	What the
conquer	to overcome and take control of people or land using military force	In 43 AD Emperor Claudius organised a successful invasion of Britain. The Romans remained in Britannia (Britain) from 43AD until	Romans did for us
invade	Enter a place or land with the intention of occupying it.	410AD when they were needed to fight to defend Rome. The Romans were very clean and loved to have a bath. They	by Alison Hawes
senate	Similar to the Roman version of our parliament or government	left bath houses behind and you can still visit the city of Bath today see where they bathed. They also brought the technology of central heating to Britain	Useful Websites
Julius Caesar	Roman leader general and historian	with them and used this to heat their bathhouses and wealthy peoples' huge mansions called villas.	http://www.primaryho
Hadrian's wall	A wall marking the Northern defence fort of the Roman Empire going from coast to coast They mined gold in Wales along with lead and copper. Lead, the Roman Empire going from coast to coast		meworkhelp.co.uk/Ro mans.html#3
Celt	Northern European people who were in Britain when the Romans arrived	been a great source of wealth for the Roman Empire. Aqueducts were built to supply fresh clean water and drains,	https://www.bbc.co.uk /bitesize/topics/zqtf34j
Caledonian	People (tribes) living north of Hadrian's Wall in Caledonia (now Scotland).	and sewage systems were built to keep the streets and houses clean. Many major cities such as London (Londinium), Manchester	https://kids.kiddle.co/R
Boudicca	Celtic Iceni tribal queen who led battles against the Roman invaders.	(Mamucium) and York (Eboracum) were founded by the Romans.	oman Britain https://www.bbc.co.uk
Fort	A strong building to be easily defended in case of a battle, to house soldiers and control an area.	There was no writing in Britain before the Romans came. They introduced it and it only survived with the help of religion. The religion of the Celts and Romans in 43AD was Paganism	/teach/class-clips- video/history-ks2-the-
census	Count of the people in the Roman empire taken every 5 year at the place they were born.	but they had different Gods; the Celts had to worship both. By 391 AD, Christianity was the official Roman religion, but pagan beliefs were still popular in Britain	roman-invasion- animation/zmyhf4j