

Science Knowledge Organiser – Sound

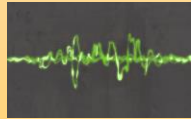
Vibrations



Sound survey



How sound travels



Loud and quiet sounds



Sounds over distance



I know...

A sound is created when things vibrate. Instruments make sound by the vibration of parts such as strings. This can be done by plucking or striking the strings.

The louder the sound the larger and faster the vibration of the particles in the solid object. The size of the vibration is known as the amplitude, The bigger the amplitude the louder the sound, the smaller the amplitude the quieter the sound.

The pitch is how high or low a sound is. The pitch of a sound can change depending on how fast the sound source is vibrating.

Investigations

- Vibrations - When rice is placed on the skin of a drum what happens when the drum is hit? What happens when the force the drum is hit with changes?
- How sound travels - Using cup telephones identify how the way sound travels changes. How does the distance a sound is travelling impact the way it travels? Is it easier for a sound to travel over a longer or shorter distance?

Keyword

Definition

Sound	Sounds produced by lots of vibrations.
Volume	How loud or quiet a noise is.
Vibration	Something moving back and forth really quickly.
Particles	A small amount of something.
Pitch	The tone of a noise.
Distance	The length of space between two points.

