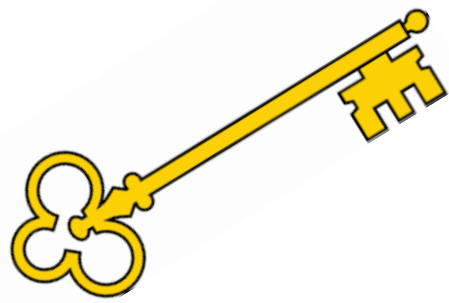




Our Learning Keys

Sound

Science

Year 4

Spring 2

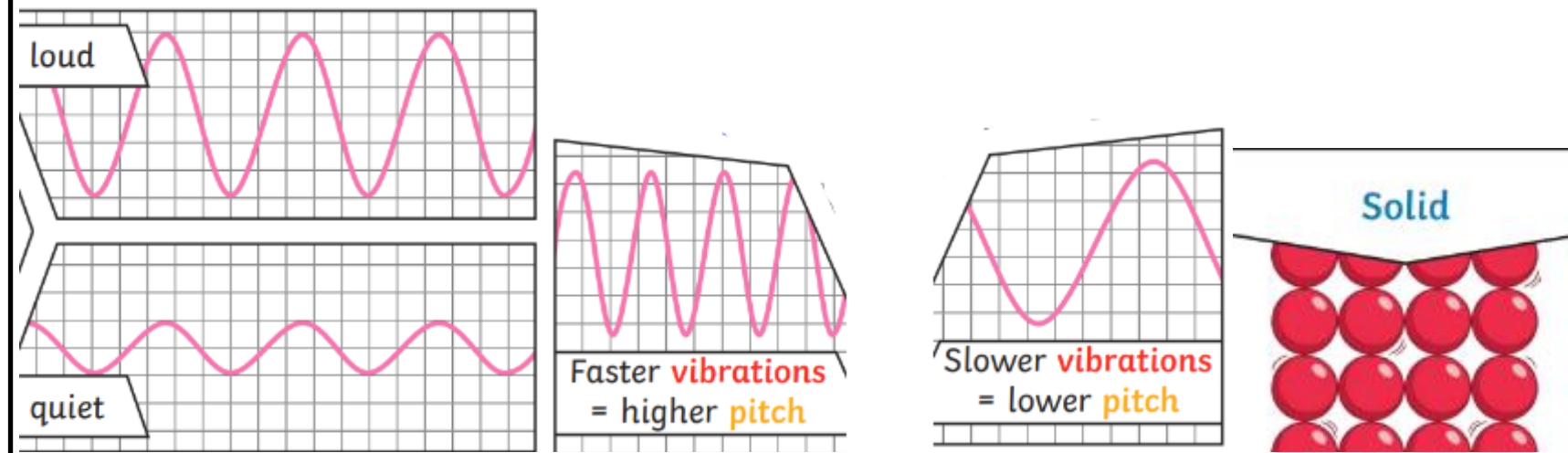
Questions

- What are sounds made from?
- How does a sound reach my ear?
- What makes a sound louder and quieter?
- What makes a sound a high or low pitch?

Vocabulary

amplitude	Volume, the strength of a sound wave
decibel	A measure of sound volume
frequency	How often something happens
pitch	How high or low a sound is
sound wave	Invisible waves which travel through materials as vibrations
transmit	To pass from one place to another
vibration	Movement of particles against each other
volume	How loud or quiet a sound is
source	Where something comes from

Images



Facts

- Sounds are made when objects vibrate, although we usually cannot see these vibrations.
- When an object starts to vibrate, it makes the air around it vibrate too. These are called sound waves. These sound waves can enter your ear.
- When the sound waves enter the ear, they make the eardrum vibrate. Messages are then sent to the brain, and the brain translates them into sounds.
- Sound waves travel through objects, including windows, walls and floors.
- Sound waves can be viewed on an oscilloscope.
 - Loud sounds will create taller waves
 - Quiet sounds will create shorter waves
 - Low pitched sounds will create wider waves
 - High pitched sounds will create more narrow waves.
- We measure sound in decibels. A whisper is about 30 decibels (dB) while a motorcycle can be 100dB. Very loud noises (over 100dB) can damage hearing.

Previously...

This year, we learned about particles in solids, liquids and gases and how they move.

Now

Next...

In Year 5,



Links

Literacy:

Doors this will open...

Sound engineer

Audiologist

Surgeon

Video game designer