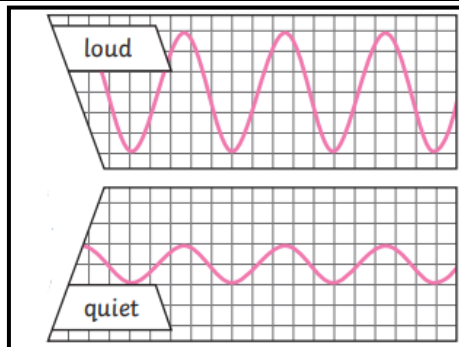


Sound	Vibrations that travel through the air or another medium and can be heard when they reach a person's or animal's ear
Pitch	How low or high a sound is.
Vibration	A quick movement back and forth.
Sound wave	Vibrations travelling from a sound source.
Volume	The loudness of a sound.
Tautness	How stretched or tightly pulled something is.
Amplitude	The size of a vibration. A larger amplitude = a louder sound.
Strength of vibrations	How strong vibrations from a sound source are.
Sound source	Where a sound comes from. A sound source produces vibrations.



Year Four

'Good Vibrations' Sound Topic

Sound is a type of energy. Sounds are made when objects vibrate. The vibration makes the air around the object vibrate and the air vibrations enter your ear. You hear them as sounds.

You cannot always see the vibrations, but if something is making a sound, some part of it is always vibrating.

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

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, like ripples in a pond.

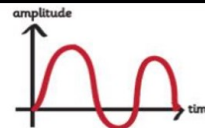
The **loudness** of a sound depends on how big the vibrations are. Beating the drum harder causes larger **vibrations** and a louder sound.



The sound is louder closer to the sound source.

The sound is **fainter** further away from the sound source.

The **amplitude** of a sound wave tells us how big the vibration is.



Key facts:

Sound waves can travel through solids (such as metal, stone and wood), liquids (such as water) and gases (such as air).

Sounds are made when objects vibrate.

When an object vibrates, the air around it vibrates too. This vibrating air can also be known as sound waves.

The sound waves travel to the ear and make the eardrums vibrate.

Messages are sent to the brain which recognises the vibrations as sounds

There are different types of sound e.g. loud, quiet, high, low,

Sounds are made in different ways e.g. striking, blowing, shaking, plucking

Pitch can be altered in different ways. For example, the length and thickness of the string or band affects the pitch.

The drum skin vibrates and makes the air around the drum vibrate.



The vibrating air spreads away from the source - this is a sound wave.

Finally, your ear picks up the sound wave and your brain translates the sound.



Vocabulary

Climate zones —There are 4 major climate zones in the world such as the arctic, where the temperature changes to that of the Mediterranean.

Biomes — a collection of plants and animals that have common characteristics for the environment they exist in and found over a range of continents.

Vegetation belts —areas of the world that have distinct types of plants, soil and weather patterns. Five major types: forest, grassland, tundra, desert and ice sheet.

Volcano — a rupture in the crust of a planetary mass-object, such as Earth, that allows hot lava, volcanic ash, and gases to escape from a magma chamber below the surface.

Environmental Change — a change or disturbance of the environment most often caused by human influences and natural ecological processes

Sustainable development – development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

Spring Year 4

Ghana

Facts about the World

There are **seven continents** and **five oceans** on a world map.

Continents

Europe
Asia
Africa
North America
South America
Australia
Antarctica

Oceans

Pacific Ocean
Atlantic Ocean
Indian Ocean
Arctic Ocean
Southern Ocean

Facts about Ghana

Ghana is a country that lies on the north west coast of the continent of Africa.

It is a country along the Gulf of Guinea and the Atlantic Ocean.

The climate is hot and humid all year round. Rainy seasons April to July and October.

It has a capital city called Accra.

It has a population of just over 31 million people.

The official language of Ghana is English.

Useful Websites

<https://kids.kiddle.co/Ghana>

<https://www.kids-world-travel-guide.com/ghana-facts.html>



Home Learning Challenges

Can you design your own map of Ghana using different materials?

Can you make your own Ghanaian flag using the correct shapes and colours?

Can you make a fact file about Ghana, including what cities there are and any other interesting facts?

Can you find out about the food of Ghana or cook some of your own.

Can you research traditional art and create your own artwork in a similar style?

We would love to see any of your own topic work that you choose to do at home so you might do something completely different. We are looking forward to sharing it together and displaying it on the Beechwood Website.