Science Knowledge Organiser - Sound - Autumn 2-2021

| Key Vocabulary |  |
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| vibration | A quick movement back and forth. |
| sound wave | Vibrations travelling from a <br> sound source. |
| volume | The loudness of a sound. |
| amplitude | The size of a vibration. <br> A larger amplitude $=a$ louder sound. |
| pitch | How low or high a sound is. |

## Key Knowledge

Sound is a type of energy. Sounds are created by vibrations. The louder the sound, the bigger the vibration.


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.


| Key Vocabulary |  |
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| ear | An organ used for hearing. |
| particles | Solids, liquids and gases are made of <br> particles. They are so small we are <br> unable to see them. |
| distance | A measurement of length between <br> two points. |
| soundproof | To prevent sound from passing through. |
| absorb sound | To take in sound energy. Absorbent <br> materials have the effect of <br> muffling sound. |
| vacuum | A space where there is nothing. There <br> are no particles in a vacuum. |
| eardrum | A part of the ear which is a thin, tough <br> layer of tissue that is stretched out like <br> a drum skin. It separates the outer ear <br> from the middle and inner ear. Sound <br> waves make the eardrum vibrate. |

## Key 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.


