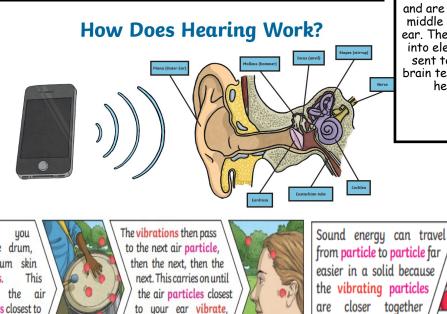
| Amblecote Primary School—Knowledge Organisers | | | | AMBLECOTE | |
|---|------------------|--------------|-------|-----------|-----|
| Phase: 3/4 | Subject: Science | Focus: Sound | Term: | Spring | EDI |

| What I should already know? | Knowledge | |
|--|---|---|
| Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. | Sound is a type of energy, Sounds are created by vibrations. The louder the sound, the bigger the vibration. | |
| | 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. | Inside your ear, the vibrations hit the eardrum |
| | | and are then passed to the middle and then the inner |

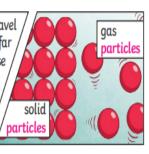
| | <u>Vocabulary</u> | How Does I |
|--------------|--|---|
| Vibration | A quick movement back and forth. | Plana (Outer Ear) |
| Sound wave | Vibrations travelling from a sound source. | |
| Volume | The loudness of a sound. | |
| Amplitude | The size of a vibration. A larger amplitude = a louder sound. | |
| Pitch | Hoe low or high a sound is. | |
| Ear | An organ used for hearing. | |
| Particles | Solids, liquids and gases are made of particles. They are so small we are unable to see them. | When you The vibrations the |
| Soundproof | To prevent sound from passing through. | hit the drum, the drum skin |
| Absorb sound | To take in sound energy. Absorbent materials have the effect of muffling sound. | vibrates. This V has next. This car |
| Vacuum | A space where there is nothing. There are no particles in a vacuum. | makes the air the air part the air part to your ear |
| Eardrum | A part of the ear which is a thin, tough layer of tissue that is stretched out like a drum skin. It separates the outer ear from the middle and inner ear. Sound waves make the eardrum vibrate. | the drum start to vibrate as well. |

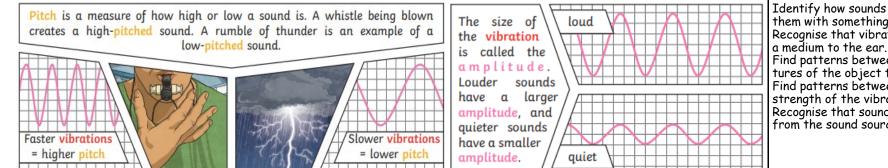


passing the vibrations

Im he ear. They are then changed into electrical signals and sent to your brain. Your brain tells you that you are hearing a sound.

are closer together than in other states of matter.





By the end of the unit I should know...

Identify how sounds are made, associating some of them with something vibrating. Recognise that vibrations from sounds travel through Find patterns between the pitch of a sound and features of the object that produced it. Find patterns between the volume of a sound and the strength of the vibrations that produced it. Recognise that sounds get fainter as the distance from the sound source increases.

| Question 1— Sound can only travel through air? | <u>Start</u> of Unit | <u>End of</u> <u>Unit</u> |
|---|-------------------------|------------------------------|
| True | | |
| False | | |
| Don't know | | |

| Question 2 What are sound waves caused by? | <u>Start</u> <u>of Unit</u> | <u>End of</u> <u>Unit</u> |
|---|--------------------------------|------------------------------|
| Vibrations | | |
| Bubbles | | |
| Light | | |
| Gases | | |
| Don't know | | |

| Question 3 | <u>Start</u> | End of |
|--|----------------|-------------|
| Which instrument do you make a sound by pulling a bow along the strings? | <u>of Unit</u> | <u>Unit</u> |
| Оьое | | |
| Piano | | |
| Violin | | |
| Clarinet | | |
| Don't know | | |

| Question 4 What happens to a sound the further away from it you get? | <u>Start</u> of Unit | <u>End of</u> <u>Unit</u> |
|--|-------------------------|------------------------------|
| Nothing | | |
| It gets louder | | |
| It gets quieter | | |
| It stays the same | | |
| Don't know | | |

| Question 5— | <u>Start</u> | End of |
|---|----------------|-------------|
| Which of these materials would be best for soundproofing? | <u>of Unit</u> | <u>Unit</u> |
| Clingfilm | | |
| Kitchen roll | | |
| Cotton wool | | |
| Tin foil | | |
| Don't know | | |
| | | · · |
| | | |

| Question 6 | <u>Start</u> | End of |
|---|----------------|-------------|
| Which of these water bottles would have the highest pitch when you blow across the top? | <u>of Unit</u> | <u>Unit</u> |
| | | |
| | | |
| | | |
| A | | |
| В | | |
| С | | |
| D | | |
| Don't know | | |