



# Knowledge Organiser

## Sound

### Need to know...

- Sounds are made when objects vibrate.
- Sound vibrations travel through the air.
- Sound volume is measured in decibels (dB).
- Pitch means how high or low a sound is.
- The louder the sound, the bigger the vibration and the quieter the sound, the smaller the vibration.



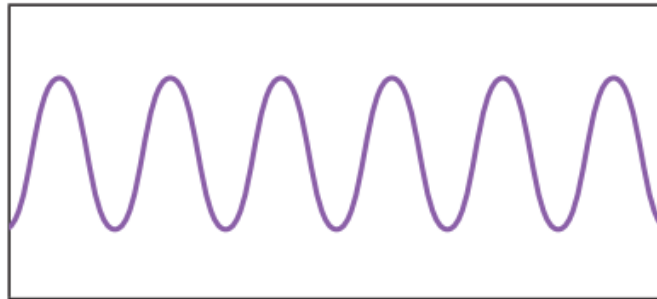
**pitch** - how high or low a sound is



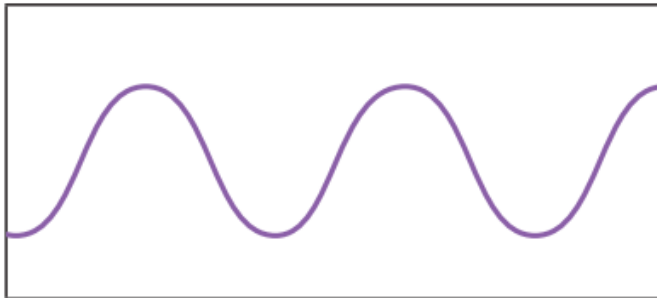
### Need to do...

- Ask relevant questions
- Record findings using simple scientific language
- Make careful observations
- Take accurate measurements using standard units
- Set up simple practical fair tests
- Use results to draw simple conclusions

**high-pitched** - describes a high sound



**low-pitched** - describes a low sound



### What I already know...

- The ear is the part of the body people here with.
- Sound is one of our 5 senses.

### What I can already do...

- Ask and answer scientific questions about the world around them.
- Follow a set of instructions to perform a range of simple tests.

**ear** – an organ in humans (and many other animals) that detects vibrations, allowing hearing



**sound** – vibrations that travel through the air, or another medium, and are heard when they reach an ear



**volume** – how loud or quiet a sound is



**decibel (dB)** – a measure of the loudness of a sound



**decibel meter** – a piece of equipment used to measure the loudness of sound



**vibration** – a quick back-and-forth movement



**insulate** – to protect something from the transfer of heat, sound or electricity



## Lesson Sequence

### Lesson 1

How is sound produced?

### Lesson 2

Can you name and describe the different parts of the ear?

### Lesson 3

Can you investigate sounds?

### Lesson 4

Can you explore volume and pitch?

### Lesson 5

Can you plan and carry out a volume experiment?

### Lesson 6

Can you evaluate a volume experiment?

### Lesson 7

Can you show what you know?