

Sound

What is sound?

- **Sounds** are made when objects **vibrate**. These vibrations cause the air **particles** surrounding them to vibrate, causing the vibrations to pass between particles.
- For sound to travel, there must be a medium (a solid, liquid or gas).
- The source is the object that produces the sound, and the detector detects the sound. Sound is transmitted from the source in all directions.
- Sounds get fainter as the distance from the source increases.

Changing sounds

- **Volume** is how loud or quiet a sound is. The volume depends on the size of the vibrations. The bigger the vibration, the louder the sound.
- **Pitch** is how high or low a sound is. A mouse's squeak is high pitched, and a rumble of thunder is low pitched. The pitch depends on the speed of the vibrations. The faster the vibration, the higher the pitch.

The structure of the ear and how we hear

