

# Key Stage 3 Precise Learning Points



**Unit Number**

P3

**Unit Title**

Waves

**Chapter**

What is the model for Sound waves?

## Key Scientific Points

1. When an object vibrates it produces a sound wave by a series of compressions and rarefactions in the air
2. Sound will only travel through a medium that contains particles, i.e. it won't travel through a vacuum.
3. Waves transfer energy.
4. Wavelength is the distance between the centre of compressions measured in metres
5. The greater the difference in particle density (pressure) between the compression and the rarefaction the higher the amplitude (loudness)
6. The number of times the centre of a compression passes a point in one second and is measured in Hertz (Hz).