

Year 4 Science - Energy - Sound and Vibrations - Spring 2

What am I going to learn in this unit?

Vocabulary I need to know

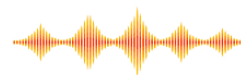
Sticky Knowledge

- Describe how sounds are made.
- Describe how sounds are heard through different mediums.
- Explain the relationship between vibration strength and volume.
- Describe the relationship between volume and distance.
- Describe pitch and how to change it.
- Explain how insulating materials can be used to muffle sound.

Working Scientifically

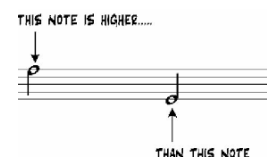
- To observe closely how different instruments create a sound.
- Research how whales and dolphins communicate underwater.
- Present results using a bar chart.
- Suggest which variables to measure and for how long.
- Design simple results tables.
- Identify when results or observations do not match predictions.

Vibration



Moving continuously or rapidly to and fro

Pitch



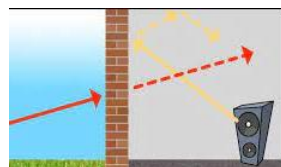
The quality of sound which depends on the rate of vibrations e.g. the degree of highness or lowness of a tone

Sound



Vibrations that travel through the air or another medium and can be heard when they reach a person or animal's ear

Insulation



Protect something by using material that prevents the intrusion of sound

Volume



The quality or power of sound

Dynamics



The varying levels of volume of sound in different parts of a performance