



Jerry Clay Academy
Subject Knowledge Organiser

Subject: Science (Sound) Year Group: 4

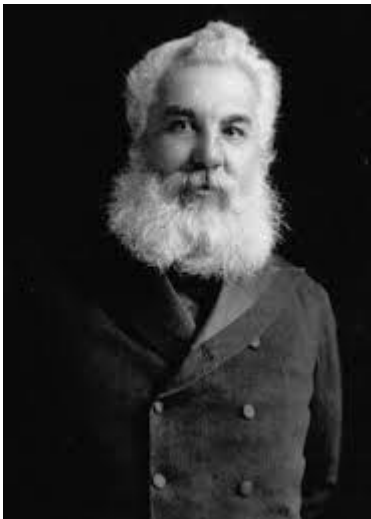
Term: Summer

Core Learning of This Unit:

- To investigate how sound can travel through solids, liquids and gases.
- To know that sound is made by air molecules vibrating.
- To know that when vibrations are made (e.g. when you clap your hands) the air around the object vibrates. This is the air molecules vibrating.
- To know that sound travels much slower than light, whether in air or in water. You often hear things after you see them, for example you see the lightning before you hear the thunder
- To know that the louder the sound the bigger the vibration. The size of the vibration is called the amplitude.
- To investigate soundproofing.

Prior Learning:

From KS1 and 2: Children will have some knowledge of how the human body works through studying the Animals including humans units of work.



National Curriculum Statements:

Pupils should be taught to:

- Identify how sounds are made, associating some of them with something vibrating.
- Recognise that vibrations from sounds travel through a medium to the ear.
- 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.

Key Vocabulary:

- Vibration A back-and-forth movement .
- Sound waves- A wave that moves through the air when a sound is made, carrying the sound to our ears
- Pitch -How high or low a sound is.
- Volume- How loud or quiet a sound is.
- Larynx- Your voice box which is in your throat. The larynx vibrates to make sound.
- Supersonic Travelling- faster than sound
- Break the sound barrier- When a vehicle begins to travel faster than sound.

Significant People

Alexander Graham Bell was a Scottish-born American inventor, scientist, and engineer who is credited with inventing and patenting the first practical telephone. He also co-founded the American Telephone and Telegraph Company in 1885.