

Ashwell Primary School
Science Curriculum
Sound Knowledge Organiser



Year 4 – Sound & Vibrations

Core Knowledge / skills to be acquired:

- recognise and describe many sounds and sound sources
- state that they hear sounds through their ears
- recognise that when sounds are generated by objects, something moves or vibrates
- **identify how sounds are made, associating some of them with something vibrating**
- identify what is vibrating in a range of musical instruments
- generalise that sounds are produced when objects vibrate
- describe how sounds are generated by specific objects
- suggest ways of producing sounds
- **recognise that vibrations from sounds travel through a medium to the ear**
- *recognise that sounds travel through solids, water and air*
- *explore how sound travels through a variety of materials*
- distinguish between pitch and volume (loudness)
- describe differences in pitch and volume
- **find patterns between the pitch of a sound and features of the object that produced it**
- know that altering vibrations alters the pitch or volume
- *describe ways in which the pitch of a sound made by a particular instrument or vibrating object can be raised or lowered*
- *generalise the effects of changes on sound (e.g. the tighter the tension the higher the pitch)*
- explore how to vary the pitch and volume of sounds from a variety of objects or instruments
- **find patterns between the volume of a sound and the strength of the vibrations that produced it**
- suggest how to change the loudness of the sounds produced by a range of musical instruments
- **recognise that sounds get fainter as the distance from the sound source increases**
- describe what they observe when they move further away from a source of sound
- *group instruments independently by the way sounds are produced*
- *identify suitable materials to use for sound insulation*
- *recognise that sound can be reflected from a surface which can cause an echo*
- *describe how some animals use echo-location*

Key Vocabulary:

Sound, pitch, volume, vibrations, medium, insulation, travel, instrument

Curriculum Enrichment / Cultural Capital Opportunities

- Through the use of Charanga music scheme / Music enrichment workshops