



St. Francis Xavier's RC Primary School

Science Unit Guidance and Formative Assessment

Year Group:	4 Spring 1	Subject:	Science
Unit:	Sound	Prerequisite Learning and Curriculum Links	<p>EYFS ELG The Natural World Explore the natural world around them, making observations; know some similarities and differences between the natural world around them and contrasting environments; understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</p> <p>Using media: explore different sound and instruments</p> <p>Curriculum links in Year 4</p> <p>Music: Explore pitch and volume, different musical instruments.</p> <p>Literacy – The Sound Collector Poem</p>

ROCKS (Remembering Our Curriculum Knowledge and Skills)

Sounds are made by vibrations

Vibrations from sound travel through a medium into our ear so we can hear them

Recognise that stronger vibrations produce sounds of a higher volume

Recognise and know that there are patterns between the pitch of a sound and the object that produced it.

To recall how as distance from sound source increases, volume decreases

Progressive Journey:

Identify which sounds we hear daily
 Play instruments to physically experiment with production of sounds
 Use a tuning fork to show vibrations of sound in water
 Display a sound meter and discuss how sounds are measured in decibels
 Identify that a sound is produced by something vibrating
 Explore the relationship between vibration and pitch/ volume
 Recognise that the volume of sound gets quieter as the distance from the source increases
 Find patterns between the volume of the sound and the strength of the vibration

Skills:

Find patterns in sound by playing different instruments
 Measure sounds using data loggers and decibel meters
 Present findings in different ways, including labelled diagrams, graphs and charts
 Make predictions and gather results to draw conclusions
 Set up own investigations and ensure tests are fair

Key Vocabulary

Vibration, pitch, volume, tuning fork, decibel, data logger, distance, pattern, strength, increase, decrease