

Subject: Science

Theme: Sound (Y4)

Knowledge	Skills	Vocabulary (Top 20)	Common misconceptions
<p>Identify how sounds are made, associating some of them with something vibrating.</p> <p>Recognise that vibrations from sounds travel through a medium to the ear.</p> <p>Find patterns between the pitch of a sound and features of the object that produced it.</p> <p>Find patterns between the volume of a sound and the strength of the vibrations that produced it.</p> <p>Recognise that sounds get fainter as the distance from the sound source increases.</p>	<p>Sort musical instruments.</p> <p>Look for patterns in the sounds that are made from objects of different sizes or thicknesses.</p> <p>Children Investigate the following:</p> <ul style="list-style-type: none"> • Measure volume from different instruments. • Measure how volume changes away from a source. • Investigate string telephones. • Explore pitch e.g. through a carousel of activities using milk bottles, straw pipes, rulers, elastic band guitars. • Investigate which material provides the best insulation against sound by making earmuffs. <p>Research, make and play their own instruments based on what they learned about pitch and volume.</p>	<p>ear</p> <p>energy</p> <p>hear</p> <p>loud</p> <p>quiet</p> <p>source</p> <p>ear drum</p> <p>high-pitched</p> <p>insulation</p> <p>low-pitched</p> <p>particle</p> <p>pitch</p> <p>soundproof</p> <p>volume</p> <p>amplitude</p> <p>muffling</p> <p>sound wave</p> <p>vacuum</p> <p>vibrate</p> <p>vibration</p>	<p>Some children may think:</p> <ul style="list-style-type: none"> • Sound is only heard by the listener. • Sound only travels in one direction from the source • sound can't travel through solids and liquids. • High sounds are loud and low sounds are quiet. • Pitch and volume are often confused, as both can be described as high or low.



Love



Friendship



Compassion



Community



Trust



Forgiveness

"Let all that you do be done in love." 1 COR 16:24
Do all the good you can.... John Wesley

