

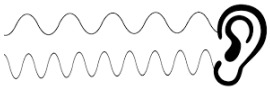
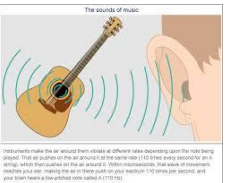
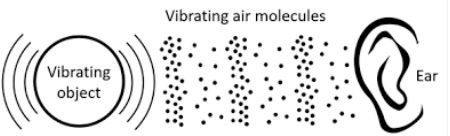



ALMOND HILL JUNIOR SCHOOL MEDIUM TERM PLAN

TOPIC TITLE/SUBJECT: Science-Sound

YEAR GROUP: 4

TERM Autumn 1

<p>Vocabulary</p> <p>Vibrate, vibration, vibrating, medium, ear, Hear, sound, volume, pitch, quiet, quieter, loud, louder, string, percussion, woodwind, brass, insulate, soundwaves, amplitude, soundproof</p>	<p>Skills</p> <p><u>Enquiry and working scientifically skills (LKS2)</u></p> <ul style="list-style-type: none"> Asks relevant questions Sets up simple enquiries, comparative and fair tests Makes systematic and careful observations Gather and record data accurately in a variety of ways. Interpreting data. Makes statements on findings from enquiries using simple scientific vocabulary, drawings, labelled diagrams etc. Report findings both in written and oral form. Use results to draw simple conclusions, making new predictions and raising further questions. Identifies difference, similarities or changes related to simple scientific ideas and processes (Pattern seeking) 	<p>What we already know</p> <p>Through 'Early learning' or personal interests outside of school, some children may have:</p> <ul style="list-style-type: none"> an understanding that sound is linked to ears investigated sounds in the environment understand that objects make sound including specific sounds from musical instruments. <p><u>KS1/2 skills</u></p> <p>Y2/Su 2 – Observe and describe, use simple equipment</p> <p>Y3/Sp 1 –Identify difference, similarities or changes (Pattern seeking)</p> <p>Y3/Su 1 – Gather and record data</p>
<p>Illustration</p> <p>Frequency & Wave Shape</p>   <p><small>The sounds of music</small></p> <p><small>Measurements make the air sound from objects at different rates depending upon the note being played. This is called the frequency of the sound wave. A 100 Hz note would vibrate 100 times per second. A 200 Hz note would vibrate 200 times per second. The ear can hear sounds from 20 Hz to 20,000 Hz.</small></p> <p>Vibrating air molecules</p>  <p><small>Vibrating object</small> <small>Ear</small></p>	<p>Application/ Outcomes</p> <ul style="list-style-type: none"> Exploring pitch of instruments Volume investigation Trial soundproofing Observe how sound is made Outdoor learning – sound journal 	<p>Concepts</p> <ul style="list-style-type: none"> Sounds are made though vibrations Vibrations from sounds travel through a medium to the ear Pitch changes dependent on the object that makes the sound Volume changes dependent on strength of vibrations Distance from sound affects how well it can be heard
<p>Other/Cross Curricular Links</p> <p>Music – pitch</p> <p>English – Research, Biography of key scientists</p>		<p>Adaptation for SEND</p> <p>Differentiated tasks</p> <p>Images and pictures used to decrease need for writing</p> <p>Worksheets produced to improve page organisation</p>