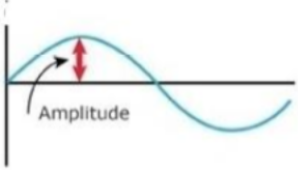
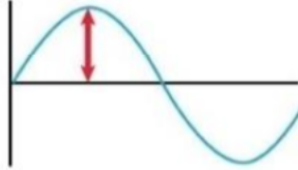


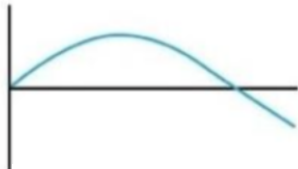
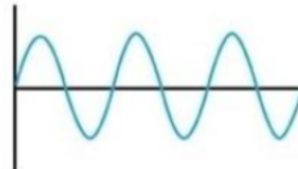


How do we hear different sounds, and what affects their volume and pitch?

Key knowledge (Fab 5)	Models and Images to support learning	Vocabulary (BIG 6)
<ul style="list-style-type: none"> • A sound produces vibrations which travel through a medium from a source to our ears. • Vibrations cause little bones inside our ears to vibrate allowing us to hear the sound. • Different mediums, such as solids, liquids and gases, can carry sound but sound cannot travel through a vacuum. • The volume of a sound depends on the strength of vibrations which decreases as they travel. • A high sound has a high pitch and a low sound has a low pitch. The sound is affected by the features of the objects producing the sound. Usually, smaller objects produce higher pitched sounds. 	<p style="text-align: center;">Volume</p> <p>The volume (loudness) of a sound depends on the size of the vibration.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Quieter</p> </div> <div style="text-align: center;">  <p>Louder</p> </div> </div> <p>The further away we are from a sound source, the fainter it will be.</p> <p>The closer we are to a sound source, the louder it will be.</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <p>A train in the distance sounds quiet.</p> <p>A train arriving at the station sounds loud.</p> </div>	<p style="text-align: center;">Vibration</p> <p>A quick movement back and forth.</p>
	<p style="text-align: center;">Sound wave</p> <p>Vibrations travelling from a sound source.</p>	
	<p style="text-align: center;">Medium</p> <p>Any material that sound waves can travel through.</p>	
	<p style="text-align: center;">Vacuum</p> <p>A place with no air.</p>	
	<p style="text-align: center;">Pitch</p> <p>A high pitch sound is made because it has a high frequency. The sound source vibrates many times a second.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Lower pitch</p> </div> <div style="text-align: center;">  <p>Higher pitch</p> </div> </div>	<p style="text-align: center;">Volume</p> <p>The loudness of a sound.</p>
	<p style="text-align: center;">Pitch</p> <p>How high or low a sound is.</p>	

