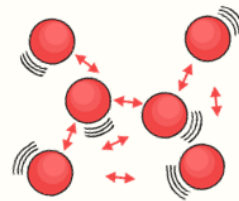




Science	Year 4
Focus: Sound	
Age related scientific vocabulary	

vibrations	Sound is made when something vibrates. This causes the particles around it to vibrate which causes more particles nearby to vibrate, which sends a vibrating ripple away from the sound source.
volume	How loud or quiet something is. A sound becomes quieter as it travels away from its source.
pitch	How high or low a sound is. The size and shape of sound waves determine the type of sound we hear – whether it has high pitch or low pitch.



Key Knowledge
<ul style="list-style-type: none"> • Sound travels from its source in all directions and we hear it when it travels to our ears. • Changing the shape, size and material of an object will change the sound it produces. • Sound is produced when an object vibrates. • Sound moves through all materials by making them vibrate. • Changing the way an object vibrates changes its sound. • Bigger vibrations produce louder sounds and smaller vibrations produce quieter sounds. • Faster vibrations (higher frequencies) produce higher pitched sounds

Carlton Assessment Grid			
Success Criteria	Pupil Reflection		Teacher Assessment
	Before	After	
I know that sounds are made when an object vibrates	<input type="checkbox"/>	<input type="checkbox"/>	
I understand that we hear sounds when the vibrations travel from a source through a medium to our ears	<input type="checkbox"/>	<input type="checkbox"/>	
I understand that sounds get fainter as the distance from sound source increases— <i>I can suggest questions that can be tested</i>	<input type="checkbox"/>	<input type="checkbox"/>	
I can find patterns between the volume of a sound and the strength of vibrations that produce it	<input type="checkbox"/>	<input type="checkbox"/>	
I can find patterns between the pitch of a sound and features of the object that produced it	<input type="checkbox"/>	<input type="checkbox"/>	
I can investigate sound-proofing materials— <i>I can put forward ideas about testing and make predictions</i>	<input type="checkbox"/>	<input type="checkbox"/>	