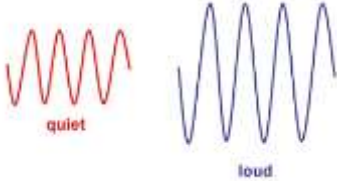


Learning Organiser for Year 4 Sound

National Curriculum Summary Key Subject Concept		Key Questions
<ul style="list-style-type: none"> Identify how sounds are made, associating some of them with something vibrating Recognise that vibrations from sounds travel through a medium to the ear Find patterns between the pitch of a sound and features of the object that produced it Find patterns between the volume of a sound and the strength of the vibrations that produced it Recognise that sounds get fainter as the distance from the sound source increases. 		<ul style="list-style-type: none"> What is a sound? How is a sound made? How do sounds travel? How do we hear? What material is the most effective sound insulator? How can you make the best string telephone? How are sound and vibrations connected?
Key Vocabulary	Definition	Key Facts
Volume	Loudness	<ul style="list-style-type: none"> A sound is made when something vibrates. Sounds can travel in two ways: <ul style="list-style-type: none"> - through the air (like from a TV speaker to your ears) - through an object (like a wooden floor) We hear when vibrating air (or sound waves) hits our ear drums and makes them vibrate.
Pitch	Level of sound (high or low)	
Faint	Not loud or clear	
Loud	High in volume	
Soft	Quiet and soothing	
Vibration	Moving back and forth very rapidly	
Sound waves	Waves of energy that we hear as sound	
Working Scientifically Skills		Diagrams/Charts/Pictures
Set up simple practical enquiries, comparative and fair tests		<p>Volume: The closer you are to the source of the sound, the louder the sound will be.</p>
Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions		
Identify differences, similarities or changes related to simple scientific ideas and processes		
Ask relevant questions and use different types of scientific enquiries to answer them		

	<p>The further away you are from the source of the sound, the quieter the sound will be.</p> 
Possible Experiences	Biographical Information
<ul style="list-style-type: none"> • Explorerdome • Investigate which material would make the most effective ear muffs • Investigate how you can make the ring on your alarm clock louder • Investigate whether the length of material affects the pitch of the sound (e.g. string, wooden ruler, metal ruler) 	<p>Alexander Graham Bell (1847 - 1922) Inventor of the telephone (1876)</p> 