## Carr Head Primary School - Knowledge Organiser

Science Sound Year 4 Spring 1

Key Knowledge		
What is sound?	Sound is a type of energy.	
How is a sound produced?	Sounds are created by <b>vibrations.</b> These vibrations can be made in a variety of ways. The vibration makes the air around the object vibrate and these vibrations enter your ear. They are called <b>sound wayes.</b>	
How do sounds travel?	Sounds can travel in all different directions. Sounds can travel through solids, liquids and gases.	
How do sounds change?	You can change the <b>pitch</b> of a sound— this is how high or low the sound is. Faster <b>vibrations</b> lead to a higher pitch.	
	The <b>volume</b> of a sound can be changed—this is how loud something is.	
Can sound be measured?	Size of vibrations can be measured—this is called the <b>amplitude</b> .	
	How loud a sound is can be measured in <b>decibels</b> .	
	Sound wave cycles can also me meas-	
Graham Alexander Bell	He became interested in sound because both his mother and wife were deaf. His experiments lead to the in-	

Key Vocabulary	
amplitude	the size of a vibration—the larger the amplitude the louder the sound
decibel	a measure of how loud a sound is
fre- quency	a measure of how many times per second the sound waves cycles
pitch	how loud or high a sound is
sound wave	vibrations travelling from a sound source
source	where the sound comes from
vibration	a movement backwards and forwards
volume	loudness of sound
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Know how to		
_	find patterns in the sounds that are made by different	
Working	objects such as saucepan lids of different sizes	
kin	investigate which materials provide the best insulation	
	against sound	
enti	make and play their own musical instruments using	
Scientificall	what they have learned about pitch and volume	





