Brooklands Primary School

Knowledge Organiser – Science: Summer 2



Sound			
Key Knowledge			Diagrama and Constrain
What is a sound?	Sounds		Diagrams and Symbols
How is a sound made?	A sound happens when something		Lowest
	drill is hitting the ground repeatedly which causes a loud noise This can be less obvious: Here the air in the bottle vibrates to produce the noise		pitched The shorter the vibrating column of air, the higher
So how do we hear sounds?			the pitch so
How do sounds travel? Sounds can travel in two ways:	Through the air - like from a TV speaker across the room to your ears Through an object/material - like stone, brick, water and glass. If someone moves furniture upstairs, the sound can travel through the floor to you.	В	Highest pitched bottle B will give a higher pitch sound
How do we hear these vibrations?	The vibrating air hits our ear drums and makes them vibrate.		Sound waves
Changing Sounds		Key Vocabulary	
Pitch		Vibrates	Move continuously very quickly
With string instruments,	The shorter the vibrating object, the higher the pitch of the sound.	Obvious	Clear and easily seen or understood
the tighter the string, the higher the pitch of the sound	The longer the vibrating object, the lower the pitch of the sound	Volume	The measure of how loud or quiet a sound is
		Initial	Happening at the beginning
Volume	The closer we are to the sound source, the louder the sound will appear to us.	Pitch	The pitch is how high or low a sound is
The further away we are	The more energy in the initial vibration the	Material	What something is made from
quieter the sound will appear.	you tap a hammer on a desk the sound will be quiet, but if you smash a hammer on a	Recognise	To see or spot something
	desk it would be much louder.	Sound waves	Sound waves travel at 343 m/s through the air
Working scientifically			transfer energy from the source of the sound, e.g. a drum, to its surroundings.
How do we hear sounds? How are sounds made? How can sounds be changed? How does sound travel? Can sound travel through different states of matter? How can we change the pitch or volume of a sound?		sound waves	