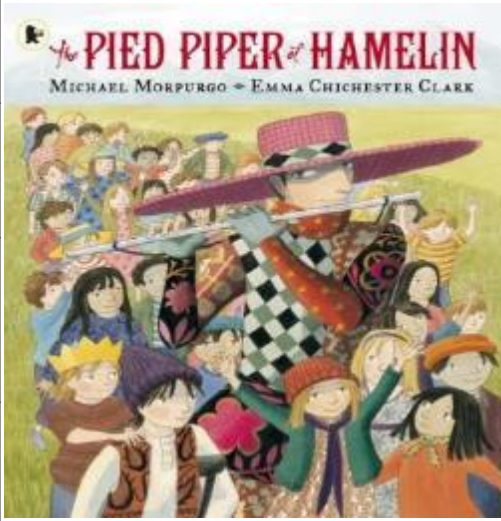


Year 4: Sound Knowledge Mat

Subject Specific Vocabulary		Interesting Book	Sticky Knowledge about Sound	
vibrating	Sound is caused by the vibration of a medium (usually air) and it travels in waves.		<input type="checkbox"/> Sound travels with a speed of 767 miles per hour but it cannot travel through a vacuum.	
pitch	A high sound has a high pitch and a low sound has a low pitch. A tight drum skin gives a higher pitched sound than a loose drum skin.		<input type="checkbox"/> Sound comes from vibrations. These vibrations create sound waves which move through mediums such as air and water before reaching our ears.	
volume	Volume is the perception of loudness from the intensity of a sound wave. The higher the intensity of a sound, the louder it is perceived in our ears, and the higher volume it has.		<input type="checkbox"/> Dogs can hear at a higher frequency as compared to humans.	
insulation	Protecting something by surrounding it with material that reduces or prevents the transmission of sound.		<input type="checkbox"/> Our ears vibrate in a similar way to the original source of the vibration, allowing us to hear many different sounds.	
outer, middle and inner ear	The ear is made up of three different sections: the outer ear, the middle ear, and the inner ear. These parts all work together so you can hear and process sounds.		Important facts to know by the end of the sound topic: <ul style="list-style-type: none"> • Know how sound is made. • Know how sound travels from the source to the ears. • Know to associate sound with vibration. • know the correlation between pitch and the object producing a sound. • know the correlation between the volume of a sound and the strength of the vibrations that produced it. • know what happens to a sound as it travels away from its source. 	<input type="checkbox"/> When traveling through water, sound moves four times faster than when it travels through air.
cochlea	The cochlea looks like a spiral-shaped snail shell deep in your ear. And it plays an important part in helping you hear.		<input type="checkbox"/> Sound is used by many animals to detect danger, warning them of possible attacks before they happen.	
sound waves	An object vibrates and creates sound waves which travel in straight lines.		<input type="checkbox"/> The loud noise you create by cracking a whip occurs because the tip is moving so fast it breaks the speed of sound!	
frequency	Frequency is measured as the number of wave cycles that occur in one second.			
hammer	The ear has little bones called ossicles that help you hear! They are called the hammer (malleus), anvil (incus), and stirrup (stapes). They amplify the sound or make it louder.			

Generic subject words: explore, conclude, key, secondary source, identify