How is sound produced?



When you bang a drum its skin vibrates. The harder you bang, the bigger the vibrations. The bigger the vibrations the louder the sound. The vibrating drum skin causes nearby **air particles** to vibrate, which in turn causes other nearby air particles to vibrate. These vibrating particles make up a **sound wave**.

How does sound travel?

Sound waves travel at **343 m/s** through the **air** and **faster** through **liquids and solids**. The waves transfer energy from the source of the sound, e.g. a drum, to its surroundings. Your **ear** detects sound waves when vibrating air particles cause your **ear drum to vibrate, which in turn cause 3 tiny bones in your ear to vibrate**.

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