

Dogs can hear sounds that humans can't. A dog whistle produces a whistling sound that is too high pitched for human ears.



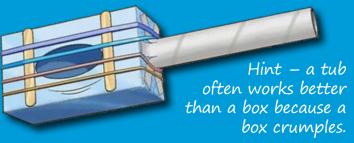


Elephants communicate with each other using 'rumbles'. These are sounds that are too low pitched for our ears to pick up!





Organise your selection of elastic bands into order - from high pitched to low to create a musical instrument.

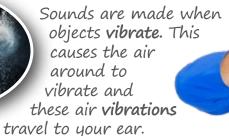


Draw a diagram and write instructions so that someone else can make an instrument that produces the same notes.



Epistemic Insight

How do we talk to astronauts in space - if there's no air?



If you block your ears, you prevent air vibrations from reaching your ear drums - and keep out the sound!



Try knocking on a desk or table. You hear the sound when the vibrations of air reach your ears.

Now put your ear to the surface and knock again. You can hear the vibrations travel through the wood. In space, there is no air and nothing for the vibrations to travel through.





Sound can't travel in space. In order to communicate with an astronaut. we convert sound vibrations into radio waves. Radio waves are like light - they can travel though space



Once the radio waves arrive at the astronaut's headset, they are changed back into sound. The sound vibrations travel into the astronaut's ears.