



Think about what you already know about sound and hearing.

Can you tell someone 10 quick facts?

4 FACTS ABOUT LOUD SOUNDS



The <u>Loudest Natural</u> <u>Sound</u> ever recorded was in 1883 when the ancient Indonesian volcano **Krakatoa** exploded!

It was 310 decibels.

310 decibels is loud enough to kill you. Your ear-drums would explode above 200 decibels!

NASA's highest

recorded decibel reading was 204 decibels when the Saturn Five rocket blasted off to the moon!

> The loudest ever man-made sound was 250 decibels. This was created by the detonation of an atomic bomb in World War Two.

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FOCUS FOR THE DAY

- Knowing that sounds travel in <u>waves</u>.
- The size (amplitude) of a sound wave is proportional to the energy and therefore the volume of the sound.
- The rate of occurrence (frequency) of a sound wave is recognizable as the pitch of the sound that we hear.

Drawing Sound-Waves What do sounds *look like*? Click on the videos below to find out.







Today, you are going to have a go at drawing sound waves.



BIG CONCEPT



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Simple hand-movements are the key to capturing the *motion*!

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A <u>wave drawing</u> shows the *movement* of <u>one particle</u> <u>over time</u>.

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Concentrate on drawing a symmetrical wave.



Remember to use smooth hand-motions.







How Loud? What frequency?

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Listen to these tunes...

Can you hear the different frequencies ?



GET READY TO DRAW SOME SOUND WAVES



Going Live!

https://heamoorcommunity.escho ols.co.uk/website/ science_week_-_sound_wb_2202 2021/543399

Thursday 25th February 10:45am <u>Google Classroom</u>



Join in with our fun wave-drawing activities!

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DOWNLOAD THE WORKSHEET

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Upload a picture! Save your work in your **Portfolio** on <u>Dojo</u>.

Which sound wave is your favourite?

Talk or write about one of the waves you have drawn.

100% Great success! You tried your best!

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Experiment Two – Seeing Sound Waves Move Objects









Upload a picture or short video. Save your work in your Portfolio on Dojo.

What worked well? What would you change?

Talk or write about the '*seeing sounds*' experiment.





Any questions? Send Mr. Fletcher a message on Dojo



JUST FOR FUN!











I hope you enjoyed the lesson!

See you tomorrow at 10:45am on Google Classroom