

SOUND

This term's Science Topic is SOUND. We will try to do some pre-learning to help us when we return to school. Do some research, ask parents or older siblings for help if you are unsure. The Engineering Interact Website is a fantastic place to start. Check it out. I hope you did so for our Electricity topic.

<http://www-g.eng.cam.ac.uk/mmg/teaching/peterstidwill/interact/resources/oceanodyssey/oceanodysseylink.htm>

or Google Engineering Interact Ocean Odyssey.

Get your ocean pass and help the mermaid to get her voice back. It is great fun and you will learn lots about the science of SOUND.

BUT first...

What do you already know about SOUND?

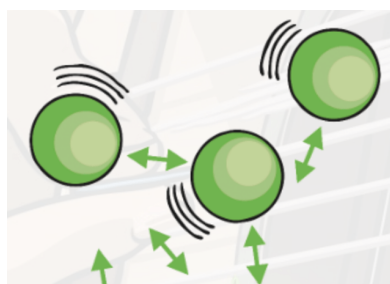
QUICK FACTS

How does sound occur?

Sound is made by air molecules vibrating.

For sound to be produced, an object (or matter) needs to be vibrated or moved by a force.

Sound waves are the initial vibrations used to make a sound vibrate the matter, surrounding it in a chain reaction and creating waves.



Sound needs molecules to move. It is impossible for sound to travel in space.

Sound doesn't have to move through air. It can travel through water or metal.

In fact, sound travels faster through water and solids than it does through air.

SOUND WALK ACTIVITY (see next sheet)

Identifying Sounds - SOUND WALK

Sound is created when **something vibrates and sends waves of energy (vibration) into our ears**. The vibrations travel through the air or another medium (solid, liquid or gas) to the ear. The stronger the vibrations, the louder the sound. Sounds are fainter the further you get from the sound source.

Go on a sound walk around your house or garden. When you hear a sound, write down what you think it is and whether it was loud or quiet.

Noise heard	What made the sound?	Was it quiet or loud?

Exploring vibrations

Put two fingers on your throat and then talk. What can you feel? What do you think is causing this?

I can feel

.....

I think

.....

.....

Design Technology Challenge

Challenge 3: Join two different things together to invent a new thing.



'Tea Cup with Cooling Fan'
by Dominic Wilcox, 2014

Little
Inventors
Daily Challenge #44

JOIN TWO DIFFERENT THINGS
TOGETHER TO INVENT
A NEW THING

Upload your drawings or makes to littleinventors.org

#timeforcreativity