

Year 4 Science

Lesson 2

Refer back to your Science work from Week 1.

Refresh your memory by watching some of the videos again (see previous Science below) or talk to an adult about what you remember about sound. If you like, you could do a 'Sound' spider diagram to show what you remember.

Activity: Have some fun - take the Sound Quiz PowerPoint.

Activity: *EITHER* do one or two of the activities from your Week 1 list (main and challenge) that you HAVEN'T yet completed.

OR

Find patterns between the pitch of a sound and features of the object that produced it

With permission from an adult, gather together a selection of household objects made of different materials (for example, something made of metal, something made of wood, something made of paper or cardboard, something made of fabric, something made of plastic, something made of glass - TAKE CARE!!).

Get a pencil or pen and tap each object 10 times, making observations about what you hear in relation to the pitch of the sound you can hear (how high or low it is). If you want, you could use a device to record each sound and then listen back to them so you can compare the pitch of each one.

Write down your observations of what you hear, making comparisons between the different materials.

You might want to draw a table, like this:

Object	Main material	Pitch (high or low sound)

Or you could record your results on a pitch-o-meter, drawing and labelling each object/material on a line from the lowest to highest pitch.

Challenge: Use the word bank to help you write a conclusion about the pitch of a sound and the material of the object that produced it.

Lesson 1

Key vocabulary

vibration

sound wave

amplitude

pitch

volume

Our Science topic for this half term is Sound.

Use the knowledge organiser and the following websites to find out more about how sounds are made and how we hear!

Choose **two** of the main activities below to show what you have learnt.

<https://www.dkfindout.com/uk/science/sound/> - this is a very interactive website with lots of great information.

<https://www.bbc.co.uk/bitesize/topics/zgffr82> - lots of videos and online activities to support you with learning about sound.

<http://www.primaryhomeworkhelp.co.uk/revision/Science/sounds.html>

Main activities:

- Label the ear and sequence the steps in hearing sounds (PowerPoint worksheet) – you could print this out to complete or draw the diagram in your book/on paper and sequence the steps by writing the letters in order.
- Create an informative poster to show what you have learnt.
- Write a paragraph explaining how sounds are made and how we hear.
- Find out the meaning of the words under key vocabulary and write the definitions.

Extra activities for those of you who wish to do more...

- Make earmuffs from a variety of different materials to investigate which provides the best insulation against sound.
- Make and play your own instruments by using what you have found out about pitch and volume.
- Make straw oboes – see the Physics tricks document.