

## Lesson 1



- I know that sounds are made by vibrations.



### Glossary

**Vibrate:** to move back and forth very quickly

**Vibration:** a fast movement of back and forth

**Molecule:** the smallest unit of a material

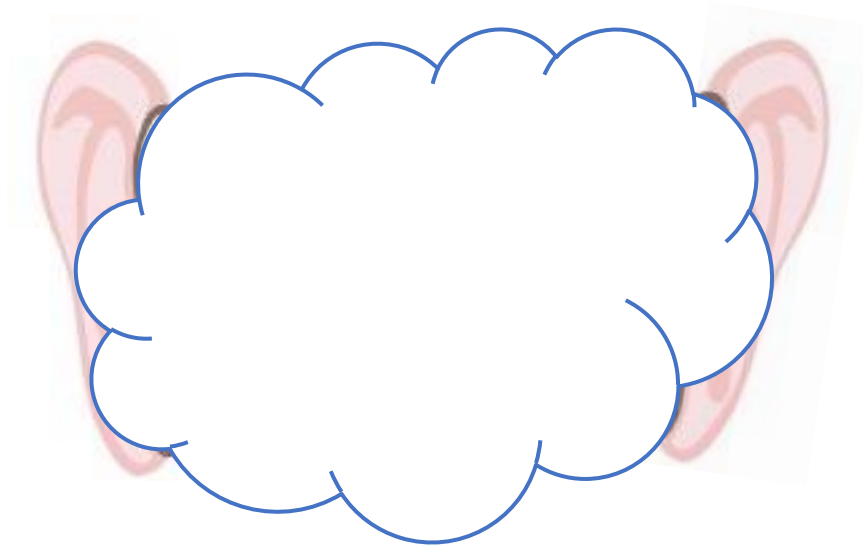
**Eardrum:** the part of the ear that vibrates when hit by a soundwave

**Larynx:** the voice box



### Which sounds can you hear?

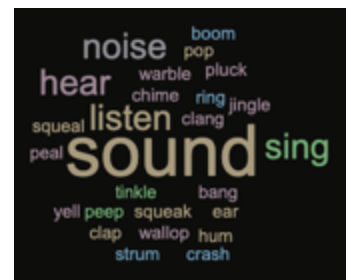
Shh, can you be completely silent for 2 minutes? What can you hear when you are silent?



### Different Sounds

Now look around you. Find 4 objects that make different sounds in different ways.

What have you chosen? Fill in the table below. An example has been done for you.



Toy or object	Type of noise	How is it made
Saucepan	Crashing noise	By hitting



### How are sounds made?

Watch this video and complete the sentences below.

<https://www.bbc.co.uk/bitesize/topics/zgffr82/articles/zstr2nb>

Word Bank	
sounds	vibrate
	eardrums



Sounds are made when an object moves, causing the molecules in the air around it to \_\_\_\_\_.

That vibration then travels through the air and hits our \_\_\_\_\_ and is then transformed into \_\_\_\_\_ in our brains.



### What is causing the vibrations when we make different noises?

Hold your larynx (voice box) and hum.  
 Describe what is happening?  
 Can you feel anything?  
 Can you make a louder or quieter sound?



Carefully wobble the ruler holding one end fixed to the table with the other end overhanging the table.  
 What can you see happening?

Choose 3 more objects from your home and complete the table below:



Object	How is the sound made?	What is vibrating?
Larynx		
Ruler		

#### Bonus task:

Tie some string around the top of a wire coat hanger and tie the other end around your finger. Tap the hanger. Now place your finger just behind your ear, and then tap the coat hanger again. Is the sound louder or quieter? By the end of this unit you may be able to explain a bit more about why.

