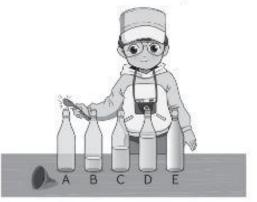
# Activity 7B The Sound of Music

Do practical work safely, reach a scientific conclusion from my results

#### Materials:

Skills:

Marker Five identical empty glass bottles Plastic funnel Water Spoon



#### Method

I Label each bottle from A to E. Use the funnel to fill bottles B to E with an amount of water as shown in the table.

Bottle	Amount of water
А	empty
В	one-quarter filled
С	half-filled
D	three-quarter filled
E	full

- 2 Use the spoon and tap the mouth of each of the bottles. Listen to the sound made by each bottle.
  - a Which bottle produced a sound with the highest pitch when you tapped it?
     A- the empty
  - b Which bottle produced a sound with the lowest pitch when you tapped it?
    E- the full
  - c How does the amount of water in the bottle affect the pitch of the sound produced by the bottle?

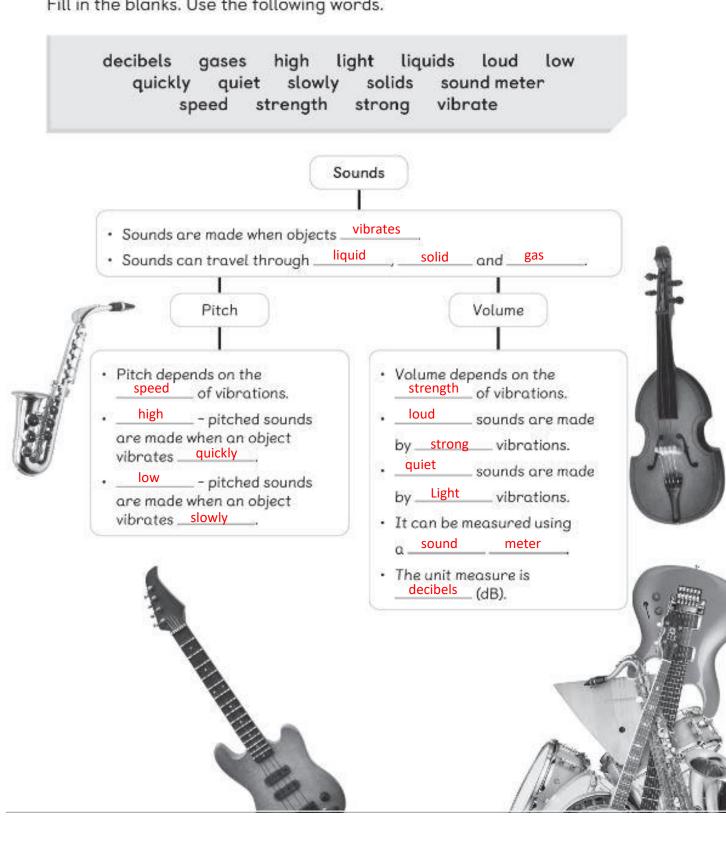
The greater the amount of water, the lower the pitch is.

### Word Whizz



Fill in the blanks. Use the following words.

	decibels high-pitched low-pitched pitch sound meter vibrates volume		
I	When an object Vibrates , it moves back and forth.		
2	The volume of sound is measured in		
3	The degree of highness and lowness of a sound is its		
4	A sound meter is an instrument that measures the volume of a sound.		
5	Volume The degree of loudness and quietness of a sound is its		
6	When an object vibrates quickly, it makes a high-pitch sound.		
7	When an object vibrates slowly, it makes a <b>low-pitch</b> sound.		

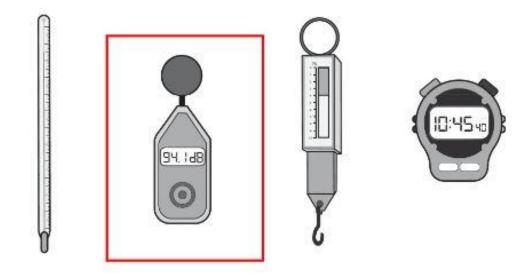


Fill in the blanks. Use the following words.



## Let's Review

- I Maggie investigates the volume of some sounds around her.
  - a She needs to measure the volume of sound.
     Which equipment should she choose?
     Circle the correct equipment.



b In what units is the volume of sound measured? Circle the correct answer.

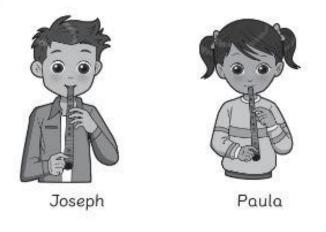


degree Celsius

metres

seconds

2 Joseph and Paula play the recorder.



a Whose recorder produces a high-pitched sound?

paula

- b What must they do to produce a louder sound? Blow the recorder with more force
- 3 The picture shows a set of tuning forks. When we hit a tuning fork, the prongs vibrate and a sound is produced.



Tick ( $\checkmark$ ) the correct reason for the different lengths in the tuning forks.

Different loudness of sounds can be produced.

L

Different pitches of sounds can be produced.