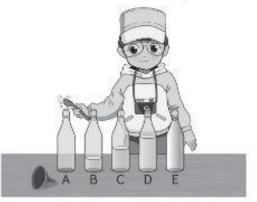
Activity 7B The Sound of Music

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?

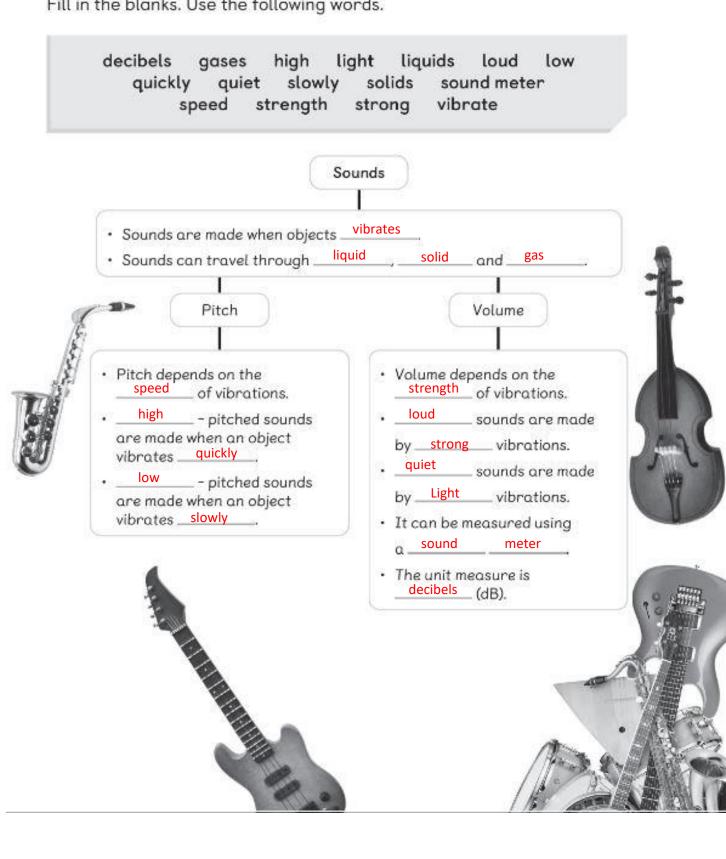
The greater the amount of water, the lower the pitch is.

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 low-pitch sound.		

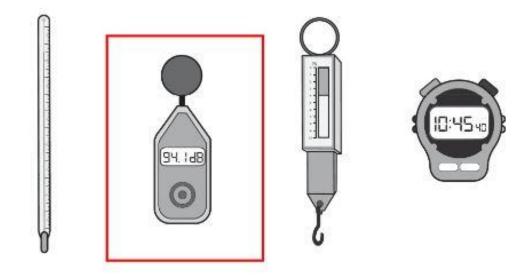


Fill in the blanks. Use the following words.



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.

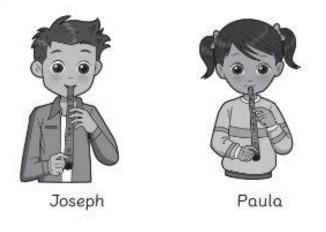


degree Celsius

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.