

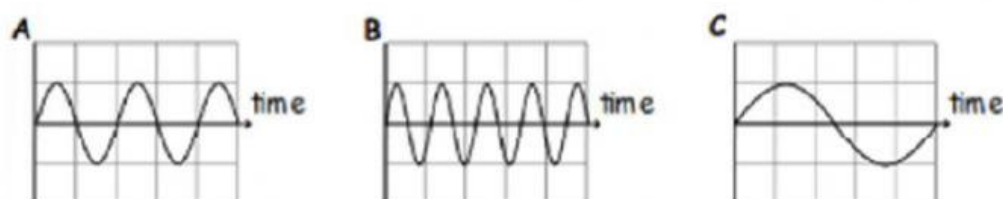
|   |                                                                                                 |   |                                                                                    |
|---|-------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------|
| 1 | Tuning forks make a sound.                                                                      | A | Because a child's voice is higher (it has a higher frequency).                     |
| 2 | You need a microphone to send a sound signal to a CRO.                                          | B | Because loud noises have more energy, so the waves have a bigger amplitude.        |
| 3 | There are more waves on the screen when a child sings into the microphone than when a man does. | C | Because the prongs vibrate.                                                        |
| 4 | The waves on the screen are taller for a louder noise.                                          | D | Because this makes the vibrating part of the string shorter, giving a higher note. |
| 5 | Guitar players place their fingers on the strings as they play.                                 | E | Because a microphone turns sound into electricity.                                 |

1 Use some of these words to fill the gaps.



- a Sound is made when something .....
- b Fast vibrations make a ..... pitched sound.
- c ..... vibrations make a low pitched sound.
- d Big vibrations make a ..... sound.
- e ..... vibrations make a soft sound.
- f A ..... shows the pattern of a sound on a screen.

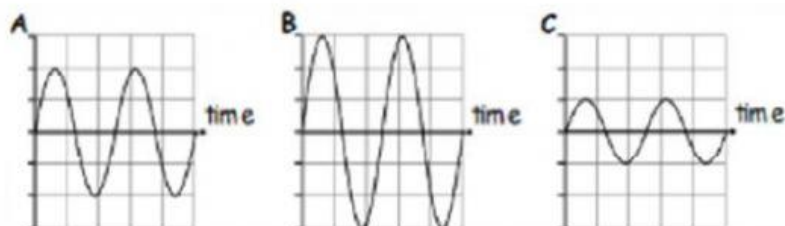
2 Look at these three sounds.



Fill in the gaps in the sentences *and* then tick the correct answer:

- a Wave ..... has the lowest pitch. This is because it has ...
  - ...the most vibrations in the same time ☐
  - ...the least vibrations in the same time. ☐
- b Wave ..... has the highest pitch. This is because it has ...
  - ...the most vibrations in the same time ☐
  - ...the least vibrations in the same time. ☐

3 Look at these three sounds.



Fill in the gaps in the sentences *and* then tick the correct answer.

a Wave ..... is the softest sound. This is because it has ...

... the biggest vibrations ☐

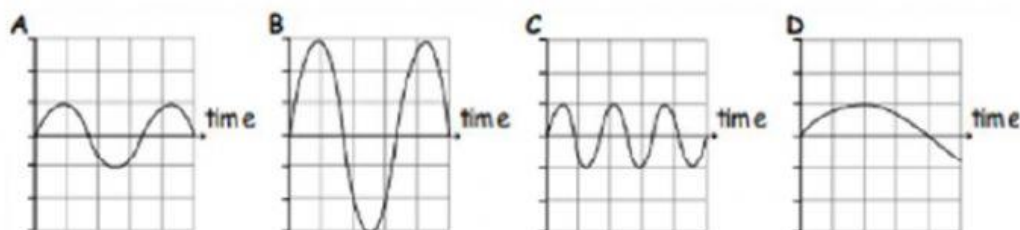
... the smallest vibrations. ☐

b Wave ..... is the loudest sound. This is because it has ...

... the biggest vibrations ☐

... the smallest vibrations. ☐

4 Look at these four sounds.



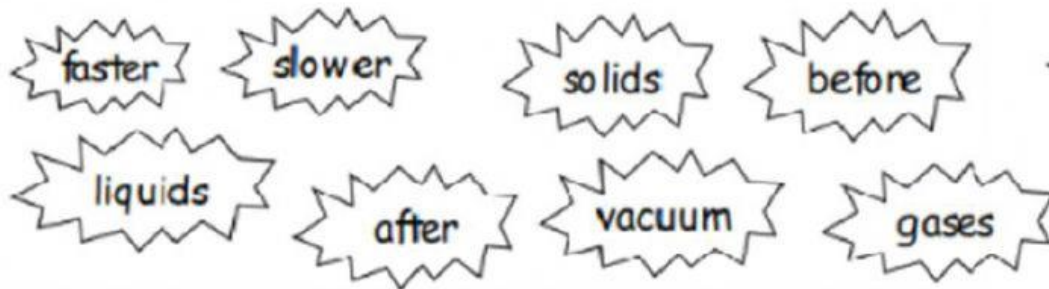
Fill in the gaps.

a Which wave has a higher pitch than A? .....

b Which wave is louder than A? .....

c Which wave has a lower pitch than A? .....

1 Use these words to fill in the gaps.



You n  
word  
than

- a Sound can travel through \_\_\_\_\_ ,  
\_\_\_\_\_ and \_\_\_\_\_ .
- b Sound cannot travel through a totally empty space  
called a \_\_\_\_\_ .
- c Sound travels \_\_\_\_\_ through solids and  
liquids than through gases.
- d Sound travels much \_\_\_\_\_ than light.
- e I see lightning \_\_\_\_\_ I hear the thunder.

2 At a cricket match, you see the ball being hit before  
you hear the sound of it hitting the ball. This is  
because ...

- ... sound travels faster than light ☐
- ... light travels faster than sound ☐
- ... the ball travels faster than sound. ☐

Tick the  
correct  
answer.