

Name			
Class		Term	2
Year		Quiz Number:	Quiz 1
		Total Marks	/12

- 1 Sound travels as sound waves.

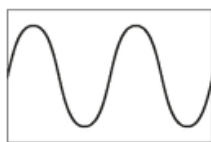
Complete these sentences using the best words.

2

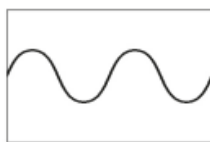
As the loudness of a sound increases, the _____ of the sound wave increases.

As the pitch of a sound increases, the _____ of the sound wave increases.

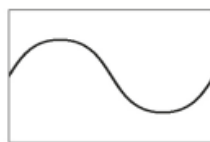
- 2 The diagrams show the waveforms of four sounds, A–D, as displayed on an oscilloscope screen.



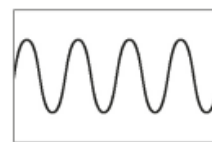
A



B



C



D

Complete the sentence using the correct letters.

2

The quietest sound is _____ and the highest pitch sound is _____.

In a reaction between nitric acid and calcium carbonate, the mass of the reactants is 150 g.

- a What will be the mass of the products?

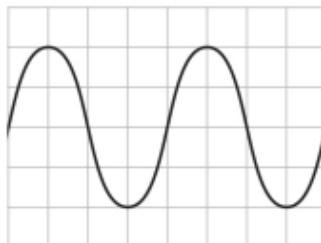
[1]

- b If this reaction is carried out in an unsealed flask that has been placed on a top pan balance, why might the mass of the products not be what you expect?

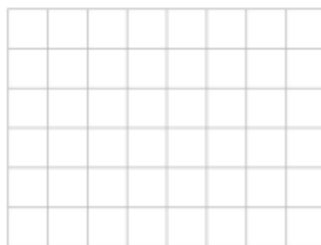
[1]

3 When two sound waves meet, they can reinforce each other or cancel each other.

a The diagram shows the waveform of one sound wave.



On the grid below, draw the waveform of a wave that will reinforce this sound.



2

b A sound wave, P, can be heard clearly. Wave P has constant frequency and constant amplitude. Another sound wave, R, cancels P completely.

i Describe what is heard when P and R cancel.

ii State how wave P must compare with wave R, if they cancel completely.

Amplitude of P compared to R is _____

Frequency of P compared to R is _____

3

4- 4 grams of hydrogen reacts with some oxygen to make 36 grams of water. Figure out how much oxygen must have been used by applying the law of conservation of mass?

.....(2)