

Q1. (2018)

0 2 . 2

What type of wave is a sound wave?

[1 mark]

Tick **one** box.

electromagnetic

☐

longitudinal

☐

transverse

☐

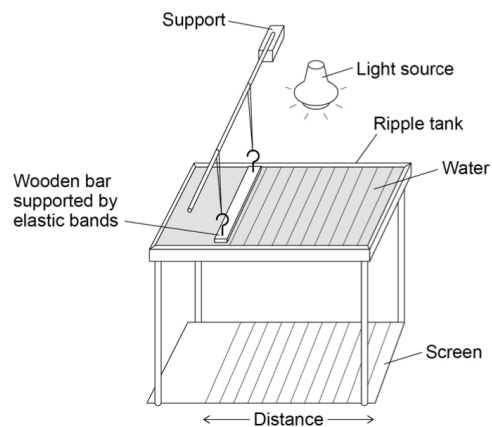
Q2. (2019)

0 7

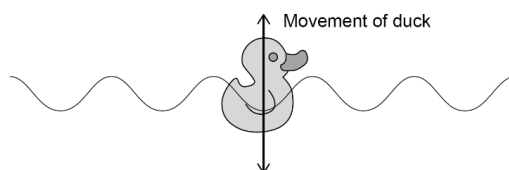
Figure 11 shows the equipment a teacher used to determine the speed of a water wave.

The equipment includes:

- a ripple tank filled with water
- a wooden bar that creates ripples on the surface of the water
- a light source which causes a shadow of the ripples on the screen.

Figure 11The teacher put a plastic duck in the ripple tank as shown in **Figure 12**.

The plastic duck moved up and down as the waves in the water passed.

Figure 12

0 7 . 2

How does the movement of the plastic duck in **Figure 12** demonstrate that water waves are transverse?

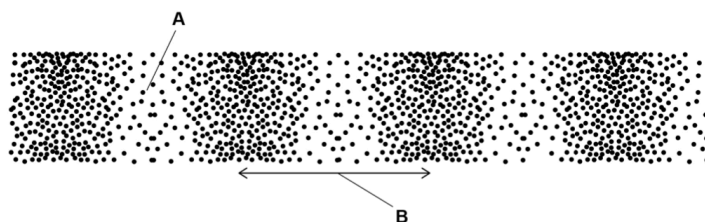
[1 mark]

Q3. (2022)

0 6

Figure 8 shows a longitudinal wave.

Figure 8



0 6 . 1

What do the labels **A** and **B** on **Figure 8** represent?

Choose answers from the box.

[2 marks]

amplitude	frequency	rarefaction	reflection	wavelength
-----------	-----------	-------------	------------	------------

A _____

B _____

Q4. (2023)

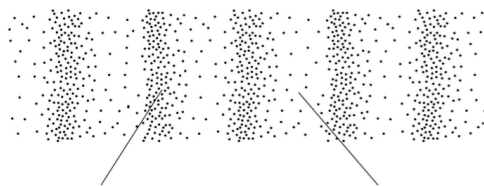
0 4

Sound waves are longitudinal waves.

0 4 . 1

Figure 9 shows a sound wave.

Figure 9

Complete the labels on **Figure 9**.

Choose answers from the box.

[2 marks]

compression	extension	rarefaction
reflection	resistance	

Q5. (2023)

0 4 . 2

Which of the following is true for longitudinal waves?

[1 mark]

Tick (✓) **one** box.

Longitudinal waves transfer charge.

☐

Longitudinal waves transfer energy.

☐

Longitudinal waves transfer matter.

☐

Q6. (2024)

03.6 Sound waves in air are longitudinal waves.

Complete the sentence to describe a sound wave.

Choose answers from the box.

[2 marks]

compression

deflection

diffraction

rarefaction

reflection

When sound waves travel through air they create areas

of _____ and _____.