

Q1.(2021)

a)

Figure 1 shows a water wave.

Figure 1



What type of wave is a water wave?

[1 mark]

Tick (✓) **one** box.

Electromagnetic

☐

Longitudinal

☐

Transverse

☐

b)

Which statement describes the movement of the water at point **X**?

[1 mark]

Tick (✓) **one** box.

The water at point **X** does **not** move.

☐

The water at point **X** moves to the left and right.

☐

The water at point **X** moves up and down.

☐

c)

The wave has a frequency of 2.0 hertz.

The wavelength is 0.032 metres.

Calculate the wave speed.

Use the equation:

$$\text{wave speed} = \text{frequency} \times \text{wavelength}$$

Choose the unit from the box.

[3 marks]

m^2/s	m/s	s^2
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Wave speed = _____ Unit _____

d)

What is transferred by all waves?

[1 mark]

Tick (✓) **one** box.

Energy	☐
Information	☐
Water	☐

Q2.(2023)

Infrared waves are transverse waves.

Complete the sentence.

[1 mark]

In a transverse wave, the direction of oscillation is _____

to the direction of energy transfer by the wave.

Q3.(2024)

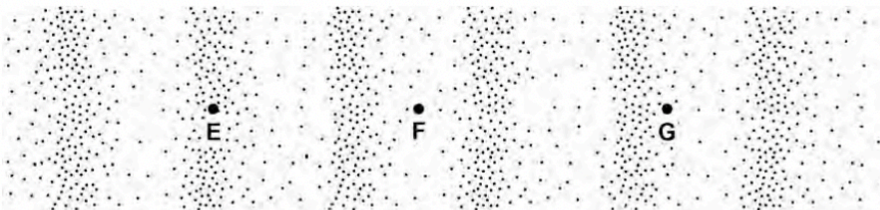
Give **one** example of a transverse wave that can travel through a vacuum.

[1 mark]

Q4.(2024)

Figure 8 represents a longitudinal wave.

Figure 8



Which point is at the centre of a rarefaction?

[1 mark]

Tick (✓) **one** box.

E	☐	F	☐	G	☐
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