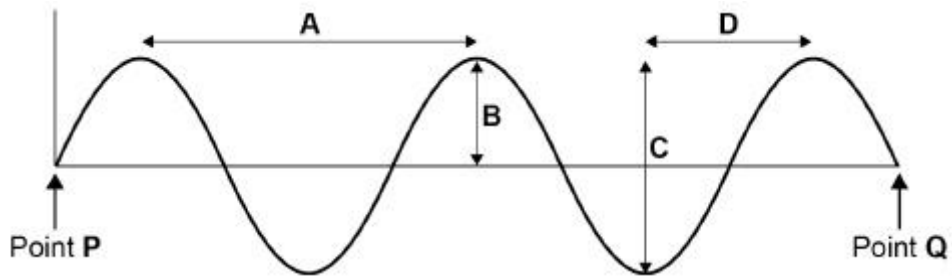


Physics unit 6 homework – Waves

For each of the questions below: -

Highlight the command word if there is one & annotate what the command word means. - Answer the question!

Q2 The diagram shows a wave.



(a) Which arrow shows the amplitude of the wave?

Tick **one** box.

A B C D

(1)

(b) Which arrow shows the wavelength of the wave?

Tick **one** box.

A B C D

(1)

(c) It takes 0.5 seconds for a wave in the diagram to travel from point P to point Q.

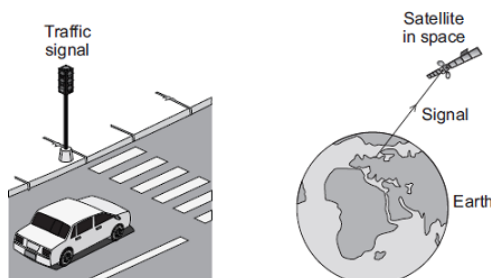
Calculate the frequency of the waves shown in the diagram.

(2)

Q3 Diagram 1 shows four of the seven types of wave in the electromagnetic spectrum.

			Diagram 1			
J	K	L	Visible light	Infrared	Microwaves	Radio waves

(a) The **four** types of electromagnetic wave named in **Diagram 1** above are used for communication.



Physics unit 6 homework – Waves

For each of the questions below: -

Highlight the command word if there is one & annotate what the command word means. - Answer the question!

- (i) Which type of electromagnetic wave is used when a traffic signal communicates with a car driver?

(1)

- (ii) Which type of electromagnetic wave is used to communicate with a satellite in space?

(1)

- (b) Gamma rays are part of the electromagnetic spectrum.

Which letter, **J**, **K** or **L**, shows the position of gamma rays in the electromagnetic spectrum?

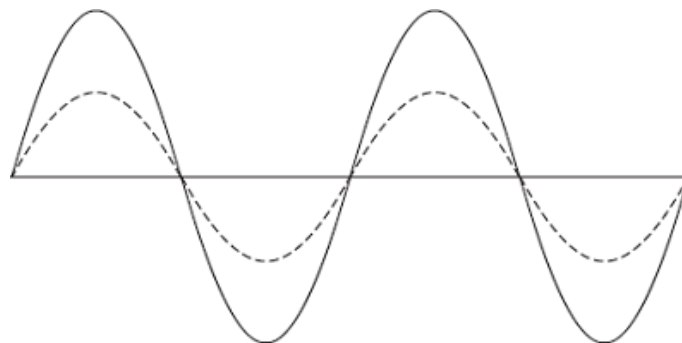
Draw a ring around the correct answer.

J K L

(1)

Q4 Diagram 1 shows two waves.

Diagram 1



- (i) Name **one** wave quantity that is the same for the two waves.

(1)

- (ii) Name **one** wave quantity that is different for the two waves.

(1)

- (iii) The waves in **Diagram 1** are transverse.

Which **one** of the following types of wave is **not** a transverse wave?

Draw a ring around the correct answer.

gamma rays

sound

visible light

(1)