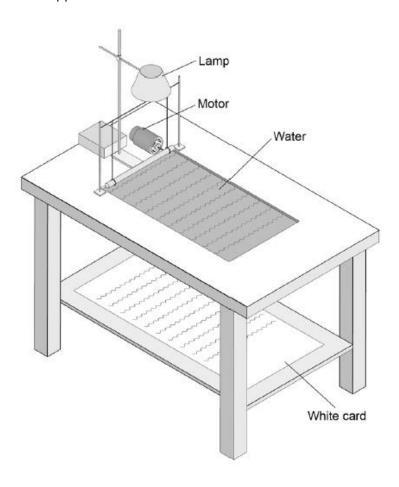
For each of the questions below: -

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

Q1 The diagram shows a ripple tank.



(a) The motor makes a noise when it is turned on.

Describe the differences between the properties of the sound waves produced by the mand the water waves in the ripple tank.	notor

For each of the questions below: -

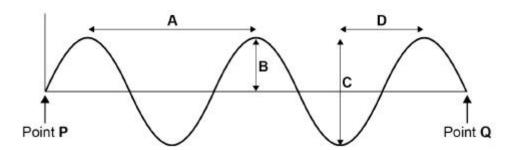
Highlight the command word if there is one & annotate what the command word means. - Answer the question!

Coloulate the frequency of the county ways	
Calculate the frequency of the sound waves.	
Use the Physics Equations Sheet.	
Frequency = Hz	
Explain how a student could make appropriate measurements and use them to determ wavelength of the waves in the ripple tank.	nine the
- <u></u> -	

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.



Tick one box.

Α		В	6 95	С		D	6 G
---	--	---	------	---	--	---	-----

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

Tick **one** box.

Α		В	- 76	С	76	D	
	3 8		8		3 8		3 8

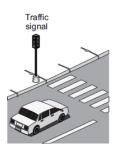
(c) It takes 0.5 seconds for a wave in the diagram to travel from point **P** to point **Q**.

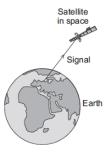
Calculate the frequency of the waves shown in the diagram.

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

			Diagram 1			·
J	к	L	Visible light	Infrared	Microwaves	Radio waves

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





(1)

(1)

(2)

For each of the questions below: -

Highlight the command word if there is one & annotate what the command word means. - Answer the question! 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) The waves in **Diagram 1** are transverse. (iii) Which **one** of the following types of wave is **not** a transverse wave? Draw a ring around the correct answer. visible light gamma rays sound

4

(1)