

Unit No/Name		Subject Name		Teacher Name		Date	
Waves, sound and light		Waves Properties 1.1 & 1.2		Ayman Al Omari			
Student No:		Student Name:	VEDC+				
<ul> <li>1)Light, examples:</li></ul>							





**Displacement (y):** Position of an oscillating particle from its equilibrium position **Amplitude (y or A):** The maximum magnitude of the displacement of an oscillating particle from its equilibrium position.

**<u>Period</u>** (T): Time taken for a particle to undergo one complete cycle of oscillation.

**Frequency (f):** Number of oscillations performed by a particle per unit time.



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**Wavelength** ( $\lambda$ ): For a progressive wave, it is the distance between any two successive

particles that are in phase, e.g. it is the distance between 2 consecutive crests or 2

troughs.

Wave speed (v): The speed at which the waveform travels in the direction of the

propagation of the wave.



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1. The illustration below shows a series of transverse waves. Label each part in the								
space provided.	space provided.							
a. <u>crest</u> b. <u>wavelength</u> c. <u>amplitude</u> d. <u>trough</u> e. <u>amplitude</u> f. <u>wavelength</u> g. <u>rest position</u>								
Answer the following questions:-								
1. What is the top of a wave called? <u>crest</u>								
2. What is the bottom of a wave called? <u>trough</u>								
3. What is pe	3. What is period?							
Time taken for a particle to undergo one complete cycle of oscillation.								
4. What is fr	equency?							
Number o second)	f waves performed by	a particle per	r unit time.(number of	vaves in a				
5. What does	5. What does amplitude measure?							
The maxin	The maximum magnitude of the displacement of a wave from its rest position.							
6. What is the distance from one crest to the next crest?								
Waveleng	th $(\lambda)$							



0.5

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<ul> <li>7. What is wave speed? <ul> <li>The speed at which the waveform travels in the direction of the propagation of the wave.</li> </ul> </li> <li>8. Below are a number of series of waves. Underneath each diagram write the A numbers of waves in the series. <ul> <li>C</li> <li>D</li> </ul> </li> </ul>								

1

a. Which of the above has the biggest amplitude?

b. Which of the above has the shortest wavelength?

c. Which of the above has the longest wavelength? \_\_\_\_\_

1.5

2.5

A

C