

Waves

Part A. Vocabulary Review

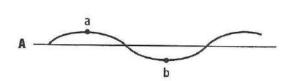
Directions: Choose the correct term from the list below and write it in the space beside each definition.

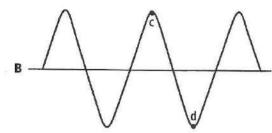
Directions. Choose the Cont	ctions. Choose the correct term from the list below and write it in the space beside each definition.				
amplitude	compression	on	diffraction	compressional wave	
crest	frequency			interference	
law of reflection	medium		rarefaction	reflection	
refraction	ĺ	resonance		standing wave	
transverse wave	trough		wavelength	waves	
Ketlection	1. when a wave strikes an object and bounces off				
Waves	2. repeating disturbances that transfer energy through matter or space				
_ Crest	3. highest point of a transverse wave				
Compression	region where the medium is crowded and dense in a compressional wave				
Transverse wave	5. wave that makes matter in the medium move back and forth at right angles to the direction the wave travels				
Interference 6. ability of two or more waves to combine and form a new w				and form a new wave	
_ Trough	7. lowest point of a transverse wave				
Medium	8. material through which a wave transfers energy				
Diffraction	9. the bending of waves around a barrier				
Karetaction	10. less dense region of a compressional wave				
Resonance	11. ability of an frequency	object to vib	rate by absorbin	ng energy at its natural	
Compressional wave	12. wave in whi	ch matter in t	he medium mo ravels	oves back and forth in the	
Navelength	13. distance bety	ween one poin	t in a wave and	the nearest point just like it	
Frequency	14. measure of	how many wa	velengths pass	a fixed point each second	
	15, the angle of incidence is equal to the angle of reflection Should be let the letter of the energy in a wave				
Standil to					
Standing wave	length and a			when waves of equal wave- ite directions continuously	
Kerachon		of a wave cau edium to ano		e in its speed as it moves	

Chapter Review (continued)

Part B. Concept Review

Directions: Use the diagram below to answer questions 1–5.





1. What type of wave is wave A? <u>Transverse</u> wave

2. Which wave carries more energy?

3. What do points a and c represent? ________ Ccs to

4. What do points b and d represent? Troughs

5. How does the frequency of wave B compare with that of wave A?

It is 2 times greater.

Directions: Using the equation $v = \lambda \times f$, find the missing values.

6. What is the velocity of a wave with a frequency of 760 Hz and a wavelength of 0.45 m?

320 mb

7. A wave with a wavelength of 15 m travels at 330 m/s. Calculate its frequency.

22 Hz

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Directions: Answer the following questions on the lines provided.

8. How do scientists know that seismic waves can be either compressional or transverse?

Waves motion, or they can be moved at right angles to it.

9. Why do surfers like water waves with high amplitudes?

The higher a water wave is the more energy it carries. Surfer will get a faster, longer ride.

10. Will loud sounds from traffic near a school break glass objects inside the school? Explain.

will shatter

enough amplitude, the glass