تم تحميل هذا الملف من موقع المناهج الإماراتية



الملف أوراق عمل Waves to Introduction مع الحل

موقع المناهج ← المناهج الإماراتية ← الصف السابع ← علوم ← الفصل الثاني

روابط مواقع التواصل الاجتماعي بحسب الصف السابع المناسلات المناسلامية الاسلامية العربية العربية الاسلامية العربية الاسلامية العربية الاسلامية العربية العر

المزيد من الملفات بحسب الصف السابع والمادة علوم في الفصل الثاني					
كل مايخص الاختبار التكويني لمادة العلوم للصف السابع يوم الثلاثاء 11/2/2020	1				
مراجعة درس الموجات, منهج انجليزي	2				
ورقة عمل الصوت والضوء	3				
أوراق عمل الوحدة الثامنة الدرس الأول 2017	4				
مراجعة للوحدة 11	5				



Introduction to Waves

Part A. Vocabulary Review

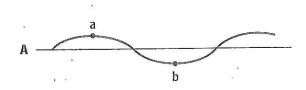
Directions: Choose the correct term from the list below and write it in the space beside each definition.

Directions: Choose the correct	term nom the not below and		п од по П
amplitude	compression diffraction		longitudinal wave
crest	crest frequer		interference
law of reflection	medium	rarefaction	reflection
refraction	resonan	ce	standing wave
transverse wave	trough	wavelength	waves
relection	1. when a wave strikes an	object and bound	ces off
waves	2. repeating disturbances	that transfer ener	gy through matter or space
Crestal and	3. highest point of a trans		
Compression	4. region where the medi- wave	*	•
Minsverse	5. wave that makes matte angles to the direction	r in the medium the wave travels	move back and forth at right
intertence	6. ability of two or more		e and form a new wave
-hough	7. lowest point of a trans		
medium	8. material through which	8	s energy '
diffraction	9. the bending of waves a		*
41.42 p. 174.44 - 174.44 - 174.44 - 174.44 - 174.44 - 174.44 - 174.44 - 174.44 - 174.44 - 174.44 - 174.44 - 174	10. less dense region of a l		
longitu	11. ability of an object to	R	
Compression	12. wave in which matter same direction the wa	in the medium m ve travels	noves back and forth in the
wavelength	13. distance between one p	ooint in a wave ar	d the nearest point just like it
fraguence,			s a fixed point each second
laturof reflect	15. the angle of incidence	is equal to the ar	ngle of reflection
amplitude	16. measure of the energy		
Standing wave	7. a special type of wave length and amplitude interfere with each ot	traveling in oppo	ns when waves of equal wave- osite directions continuously
refraction	18. the bending of a waye from one medium to	e caused by a char another	nge in its speed as it moves

Chapter Review (continued)

Part B. Concept Review

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



		(€	-	1		1	1	1 1
1	What type of wave is wave A?				U	U		1
1.0	Willat type of wave to wave zx.				-11	49.4		

2. Which wave carries more energy?

3. What do points a and c represent?

4. What do points b and d represent?

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

Directions: Using the equation $v = \lambda \times \ell$, 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?

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

Directions: Answer the following questions on the lines provided.

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

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

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

32 Introduction to Waves

Introduction to Waves

I. Testing Concepts

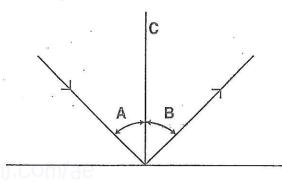
Directions: In the blank at the left, write the letter of the term that best completes each statement.							
	D	1.	A is a repeat	ing disturbance or mo	ovemen't that transfers	s energy through mat-	
	. /		ter or space. a. medium	NEWSTI ZUMMONYMENON	c. material	d. wave	
	H	2.	The matter through a. medium	which mechanical wa b. substrate	ves travel is called a _ c. region	d. domain	
	A	3.	The high point on a a. crest	wave is called its b. trough	c. rest position	d. none of these	
	<u>D</u>		a. crest		c. rest position		
	5		a. compression	on of a longitudinal wa b. rarefaction	c. rest position	d. Home of these	
	A		 a. wavelength 	b. frequency	c. crest	earest point just like it. d. trough	
	B	7.	The of a war a. volume		velengths that pass a t	fixed point each second. d. trough	
	H	8.	The of a wa	ive is the amount of ti	me it takes one wavel c. crest	ength to pass a point. d. trough	
	H	9.	The greater a wave's a. more	s amplitude, the b. less	energy the wave ca c. both a and b	d. none of these	
_	<u>H</u>	10.	is the bend	ling of a wave caused	by a change in its spe	ed as it moves from	
	7			b. Reflection	c. Rarefaction	d. Fusion	
3.5	<u>D</u>	11.	a. Refraction	en an object causes a w b. Reflection	vave to change directi c. Correction	on and bend around it. d. Diffraction	
		12.	. When two or more	waves overlap and co	mbine to form a new	wave, the process is	
	3		called a. refraction	b. reflection	c. interference	d. diffraction	

Chapter Test A (continued)

II. Understanding Concepts

Skill: Interpreting Scientific Illustrations

Directions: *Use the diagram to answer question 1.*



- 1. In the diagram, identify each part by filling in the blanks below.
 - a. Dot incidence
 - b. > Of reflection
 - c. nomal

Directions: Label each item on the left as a compressional wave, transverse wave, or both.

- 2. ocean wave
- 3. sound of someone laughing Compression
- 4. sunshine Waysverse
- 5. a ripple on a pond Tanverse
- 6. a seismic wave

Skill: Making Generalizations

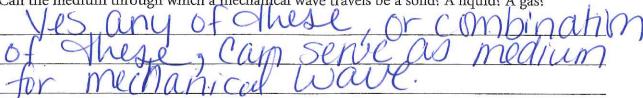
7. "When an earthquake hits, it causes terrible damage," a friend says. "That depends," another friend answers. On what does it depend, and why?

friend answers. On what does it depend,

amplitude

Chapter Test A (continued)

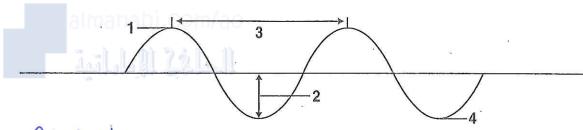
8. Can the medium through which a mechanical wave travels be a solid? A liquid? A gas?



III. Applying Concepts

Writing Skills

Directions: For questions 1 through 4, identify the parts of a transverse wave indicated.



- 1. Crest
- 2. amplitude
- 3. Wavelength
- 4. Mugh

Directions: Write a multiparagraph essay in answer to the following question. Use additional sheets of paper if necessary. Use the terms **longitudinal**, **transverse**, and **electromagnetic**.

5. Imagine yourself one morning looking in the bathroom mirror while washing your hands in the sink and also listening to the radio. How many waves are you interacting with? Explain.

Water in Sink is forming
Aransverse waves.

Radio is forming longitudinal or Sound waves, traveling through air to ear.

Light waves from Sun ar light but he reflecting on you and