ne	Class	Date
Chapter 20 - 7	The Energy of Waves	
Directed Rea		
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41 - The No. 4	of Moves	
ection: The Nat	ure or waves	
1. What is a wave?		
NAVE ENERGY	moves torroad the chore but the leaf	floating on the surface
2. Why does a wave r	move toward the shore but the leaf not?	mounts on the bureace
3. A substance throu	gh which a wave can travel is calle	d a(n)
4. How is energy tran	nsmitted through a medium?	
<u> </u>		
5. Define <i>vibration</i> .		
	*	
4		
6 Name three types	s of waves that require a medium.	
o. Name unce types	of waves that require a rice	
. waves that require	re a medium are called	·

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0	2 28 28
List three examples of waves that can transmedium.	sfer energy without going through a
er saughver sur same neawled :	ides to be save of the desired and
. Calaitana tan	a da a d
Waves that do not require a medium but ca	an go through matter are called
olo	
ES OF WAVES	
What are the two main types of waves?	
e emblyings:	aonesquest.
How does a surface wave form?	
ch the correct description with the correct trided.	
ch the correct description with the correct to vided. 12. a part of a longitudinal wave where particles are crowded together	
rided.12. a part of a longitudinal wave where	the a. transverse wave
rided12. a part of a longitudinal wave where particles are crowded together	the a. transverse wave b. compression
 12. a part of a longitudinal wave where particles are crowded together 13. word that means to be "at right ang 14. the highest point of a transverse was 	a. transverse wave des" b. compression c. trough d. perpendicular
 12. a part of a longitudinal wave where particles are crowded together 13. word that means to be "at right ang 14. the highest point of a transverse wa 15. a part of a longitudinal wave where 	a. transverse wave des" b. compression c. trough d. perpendicular
 12. a part of a longitudinal wave where particles are crowded together 13. word that means to be "at right ang 14. the highest point of a transverse wa 15. a part of a longitudinal wave where ticles are spread apart 	a. transverse wave b. compression c. trough d. perpendicular e. rarefaction f. crest
 12. a part of a longitudinal wave where particles are crowded together 13. word that means to be "at right ang 14. the highest point of a transverse wa 15. a part of a longitudinal wave where 	a. transverse wave b. compression c. trough d. perpendicular e. rarefaction f. crest
 12. a part of a longitudinal wave where particles are crowded together 13. word that means to be "at right ang 14. the highest point of a transverse wa 15. a part of a longitudinal wave where ticles are spread apart 16. a wave in which the particles of the move perpendicularly to the directi 	a. transverse wave b. compression c. trough d. perpendicular e. rarefaction f. crest g. longitudinal wave

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Skills Worksheet				betsetiC
Directed Re	ading A	unnama val		edit toi i
	and the second s			
Section: Proper	ties of Wav	ves		
1. The height	of waves and	the distanc	ce between crests are examples of	
a. wave int	eractions.		c. wave properties.	
b. media.			d. rest positions.	
AMPLITUDE				
2. The amplit	ude of a wave	is related	to its	
a. speed.			c. length.	
b. frequence	ey.		d. height.	
		s in a medi	ium stay when there are no	
disturbanc			- amplitudo	
a. rest pos			c. amplitude.d. compression.	
b. wavelen	gui.		d. Compression.	
, , , , , , , , , , , , , , , , , , , ,				(_
5. A wave with a(n)	iti ni mual viti		amplitude carries more energy	
than a wave with	a(n)	i . , 2:11	amplitude.	
WAVELENGTH				
6. The distan	ce from any pois called a		vave to an identical point on the	
a. crest.			c. trough.	
b. waveler	ngth.		d. frequency.	
7. A wave with a(n)	Jano A	- m. 152	wavelength carries more energy	
than a wave with	a(n)	add as	wavelength.	
			the lowest point between each and	

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Directed Reading A continued		Casedathow allo
FREQUENCY		inered Kr
8. The number of waves produce	l in a given amount of time is	known as
the wave's	a troitagrein	
a. hertz.	c. frequency.	
b. speed.	d. compression.	
9. Which of the following units ar	e used to measure frequency?	
a. meters	c. decibels	
b. hertz	d. watts	
10. One hertz equals how many wa	wes per second?	
a. 1	c. 10	
b. 5	d. 100	
11. If the amplitudes of waves are equal,	wa	ves carry
more energy than		
more energy man	waves.	
WAVE SPEED12. What is the speed at which a va. frequency	c. wavelength	a called?
b. hertz	d. wave speed	
13. If the speed and the wavelength the wave equation can be used		vn, then
a. amplitude.	c. compression.	
b. frequency.	d. hertz.	
14. If a wave is traveling at a certa what happens to the waveleng a. The wavelength is doubled. b. The wavelength is halved. c. The wavelength remains the d. The wavelength is inverted.	th? e same.	
15. Wave speed is equal to	multiplied by fre	auency.
16. How is the wave equation used to cal		T
13 TOW IS THE WAVE Equation used to call	catalo naro spood national	

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Directed Reading A		<u>v</u>
ection: Wave Interactions		
EFLECTION		
. Why do planets and the moons shine s		nt?
	io bearing stop adward of barb	
aledo.	acturs continued to the	a .6
	No. 6	
2. When a wave bounces back after hitting	ng a barrier,	
occurs.		
3. A reflected sound wave is called a(n)	to should be a should be a should	
4. When a wave passes through a substa	nce, the wave is	
through the		
EFRACTION	ations speed at which a ways our citate	
5. When a wave bends as it passes from	one medium to another at an angle,	
occurs.		
6. What causes a wave to bend and trave	el in new direction when it moves fro	m
one medium to another?		
	emplificate, c. cc	
330 37	ar a	1 .0
- Alan is the remaining of all the	three manura in governo as wave	6 II
	et jazgnoss to the wavelenship	hiw
7. Why can you see a rainbow when sun droplets?	light is refracted through water	
:	wew equation used so este 100 was	nij i
DIFFRACTION		
8. Define diffraction.		
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