Name:	Class:	Date:

Assessment

Vibrations and Waves

Section Quiz: Properties of Waves

Write the letter of the correct answer in the space provided.

 The material through which a mechanical wave travels is a medium. empty space. ether. air.
 2. When a transverse wave passes through water, water molecules are displaced a. permanently in the direction of the wave motion. b. permanently in a direction perpendicular to the wave. c. temporarily in the direction of the wave motion. d. temporarily in a direction perpendicular to the wave.
3. A wave that is produced by a single motion that does not repeat is a wave. a. transverse b. continuous c. pulse d. compression
 4. The distance between two troughs of a transverse wave is the wave's a. amplitude.b. wavelength.c. frequency.d. rarefaction.
 5. A wave travels through a medium as a series of compressions and rarefactions. a. sine b. longitudinal c. pulse d. transverse
 6. A wave is passing through a uniform medium. As the frequency of thi wave increases, its wavelengtha. depends on amplitude.b. decreases.c. increases.

d. does not change.

	Class:	Date:	
d Waves continued			
les (waves) by movi ake the ripples trave love your foot up ar love your foot up ar	ing your foot u el faster throug nd down more f nd down less fr	p and down. What could y th the water? frequently equently	-
the nergy			
aveiength atter			
ıbel a transverse wa	ive on your ans	wer form.	
	bose you are dangling les (waves) by move ake the ripples travelove your foot up an above your foot up an above your foot up and love your foot up and lov	bose you are dangling your foot in les (waves) by moving your foot u lake the ripples travel faster throughove your foot up and down more stove your foot up and down more stove your foot up and down more stove your foot up and down more stone of the above amplitude of a mechanical wave demonstrated the wave transfers the regy r avelength	pose you are dangling your foot in a swimming pool, making les (waves) by moving your foot up and down. What could y ake the ripples travel faster through the water? Hove your foot up and down more frequently hove your foot up and down less frequently hove your foot up and down more strongly one of the above amplitude of a mechanical wave determines how much the wave transfers per unit time. hergy r avelength

10. Draw and label a longitudinal wave on your answer form.