ame	Date	Class
haracteristics of Waves	Guided Reading and	d Study
Yhat Are Waves	? (pp. 510–514)	
iis section explains what caus	ses waves and identifies tu	vo types of waves.
se Target Reading Ski efore you read the passage for fter you have read the passage	each heading, fill in the top	o box with what you know. Ith what you have learned.
	What You Know	
I. Waves are high and lov	w.	
2.		
3.		
4.		
5.		
	What You Learned	
I.		
2.		
* 3.		
4.		
5.		
Waves and Energy (pp. 1. What is a wave?	. 511–512)	
2. The material through v	which a wave travels is c	ralled a(n)
3. Circle the letter of each a. solids b. liquids c. gases d. empty space	·	

Nam	ne Date Class			
Cha	racteristics of Waves • Guided Reading and Study			
Wh	at Are Waves? (continued)			
4.	Waves that require a medium through which to travel are called			
	Is the following sentence true or false? When waves travel through a medium, they carry the medium with them.			
	Explain what happens to the motion of a duck on the surface of a pond when a wave passes under it.			
7.	Give an example of a wave that can travel through empty space.			
8.	Mechanical waves are produced when a source of energy causes a medium to			
9.	What is a vibration?			
Tive	Des of Waves (pp. 512–514)			
3.0	How are mechanical waves classified?			
11.	Waves that move the medium at right angles to the direction in which the waves are traveling are called			
12.	Suppose you move the free end of a rope up and down to create a wave. In that case, the rope is the medium. What is the relationship between the movement of the wave and the movement of the particles of the medium?			