Traine Bate	Name	Class	Date
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Chapter 16 The Dynamic Ocean

Section 16.2 Waves and Tides

This section discusses waves and tides and explains what causes them.

Reading Strategy

Building Vocabulary As you read this section, define in your own words each vocabulary term listed in the table. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Vocabulary Term	Definition	
Wave height	a.	
Wavelength	b.	
Wave period	C.	
Fetch	d.	

Waves

- **1.** Waves in the ocean are ______ traveling along the water.
- **2.** Circle the letter of the source of most waves' energy and motion.
 - a. Earth's gravity
- b. wind
- c. Earth's rotation
- d. the moon's gravity
- **3.** The distance wind travels across open ocean water is called

4.	What three fa	actors determine the height, length, and period of	
	ocean waves?		
			

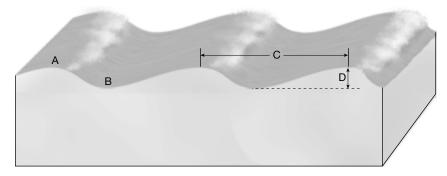
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5. Write the name of the wave part represented by each of the following letters in the figure.

A. _____

D. _____

D



6. Is the following sentence true or false? Through circular orbital motion, wave energy moves forward through ocean water, while individual water particles move around in a circle, staying essentially in the same place.

Tides

- 7. What causes ocean tides?
- **8.** Circle the letter of the forces that produce tides.

a. inertia and gravity

b. friction and wind

c. temperature and pressure

d. gravity and friction

9. Is the following sentence true or false? Most places on Earth experience one low tide and one high tide each day.

Match each definition with its term.

Definition

- _____ **10.** tide with the greatest difference in height between successive high and low tides
- _____ 11. tide with the least difference in height between successive high and low tides
- ____ **12.** difference in height between successive high and low tides

Term

- a. spring tide
- b. neap tide
- c. tidal range