

## Chapter 5

Text Pages 138–139

## STUDY GUIDE

## ● Mapping Our Planet

Use the words in the box to complete the statements.

radar	Sea Beam	distance
ocean	calculated	dozen
sound	speed	gravitational force
receiving	Landsat	colors
Topex-Poseidon	echo	time

1. A \_\_\_\_\_ Satellite uses a mirror to detect wavelengths of energy reflected from Earth's surface.
2. The \_\_\_\_\_ Satellite computes the distance between the satellite and the ocean's surface.
3. The high-frequency radio waves that are transmitted by the Topex-Poseidon Satellite are also known as \_\_\_\_\_ waves.
4. Information gathered from Landsat satellites is used to show different wavelengths of energy as \_\_\_\_\_ .
5. Ocean water forms bulges over mountains and depressions over valleys because there is more \_\_\_\_\_ between ocean water and large structures on the ocean floor.
6. \_\_\_\_\_ is a new sonar technology.
7. Sonar refers to the use of \_\_\_\_\_ waves to detect structures on the \_\_\_\_\_ bottom.
8. Sea Beam sends a \_\_\_\_\_ wave from the bottom of the ship toward the \_\_\_\_\_ floor.
9. The sound wave bounces off the ocean floor and an \_\_\_\_\_ of the sound wave is picked up by a \_\_\_\_\_ device.
10. The \_\_\_\_\_ the sound wave traveled is \_\_\_\_\_ by a computer.
11. The computer uses the \_\_\_\_\_ of the sound in the water and the \_\_\_\_\_ it takes for the sound to be reflected to make the calculations.
12. An equipped Sea Beam has more than a \_\_\_\_\_ sonar devices.