

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

## Earth's Undersea World

*As you and your partner read Chapter 9, "Earth's Undersea World," answer the following questions.*

1. Seafloor spreading explains which of the following?
  - A. the presence of mid-ocean ridges on the seafloor
  - B. Wegener's theory of continental drift
  - C. the formation of hydrothermal vents
  - D. All of the above
  - E. A and B only

Answer \_\_\_\_\_

Page(s) \_\_\_\_\_

2. Which phrase describes the Mid-Atlantic Ridge?
  - A. a warm, dark area on the sea floor
  - B. a long, rugged underwater mountain range
  - C. a cluster of seamounts
  - D. a cluster of hydrothermal vents

Answer \_\_\_\_\_

Page(s) \_\_\_\_\_

The following question has two parts. Answer Part A and then answer Part B.

3. **Part A:** Fill in the following chart to indicate which seafloor feature the animals live around, hydrothermal vents or seamounts.

Animals	Where they live
white crabs	
brittle stars	
schools of fish	
pale, blind shrimp	
sponges	
deep-sea corals	
giant tube worms	
anemones	
football-sized clams	

Page(s) \_\_\_\_\_

**Part B:** Why might these animals live near these particular seafloor features?

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

4. Match each cause to its effect by typing the correct letter for the effect next to the correct cause.

Causes		Effects	
_____	Seamount emerges from the ocean's surface	a.	continental drift
_____	One tectonic plate slides under another	b.	seafloor spreading
_____	Tectonic plates move apart very slowly	c.	islands are formed
_____	Seafloor spreading	d.	a trench is formed
_____	Water seeps into the earth's crust and is heated by magma	e.	mountains are formed
_____	Tectonic plates collide	f.	hydrothermal vents are formed

5. On page 84, the author uses a simile when describing the mountain chain formed by mid-ocean ridges, saying it is *like the stitching on a baseball*. Explain what this simile means.