

#14: Plate Tectonics I (pages 442-447)

name: _____

1. Look at the map atop page 443. What is the specific name of the fault represented by the red line?
2. Which city sits practically on top of the fault?
3. In what direction is the land that Los Angeles sits on moving toward?
4. How fast is it moving?
5. What is the purpose of the maps on page 444?

To show . . .

6. What was Pangea, and when did it exist?
7. What does the word Pangea mean?
8. Has the Atlantic Ocean been getting bigger or smaller since Pangea?
9. Summarize Alfred Wegener's theory of continental drift.
10. When did the theory come out?

Read page 445 and explain how each of the following fossils supports the theory that the continents were all together 200 million years ago. Be specific.

11. Kannemeyeriid and Labrinthodont

12. Mesosaurus

13. Glossopteris

14. On the map on page 445, what do the brown areas represent?

15. According to page 446, why did Wegener conclude that Antarctica was near the equator at some time in the past?

16. Why did he conclude that Africa, India, Australia, and South America had once been near the pole?

17. Read the section titled "A rejected Hypothesis" on page 446 and 447. What are the two reasons Wegener's theory of continental drift was rejected?

18. When did Wegener die?

19. When did scientists discover new evidence that would support his theory?

20. Look at the map on page 447. What would have been found inside dashed circle when the continents were in this position 300 million years ago?