

Chapter 4 Assessment

Name _____

Date _____

A B C D

Checking Concepts

Choose the word or phrase that best answers the question.

- Which layer of Earth contains the asthenosphere?
A) crust
B) mantle
C) outer core
D) inner core
- What type of plate boundary is the San Andreas Fault part of?
A) divergent
B) subduction
C) convergent
D) transform
- What hypothesis states that continents slowly moved to their present positions on Earth?
A) subduction
B) seafloor spreading
C) continental drift
D) erosion
- Which plate is subducting beneath the South American Plate to form the Andes mountain range?
A) North American
B) African
C) Indo-Australian
D) Nazca
- Which of the following features indicates that many continents were once near Earth's south pole?
A) glacial deposits
B) mid-ocean ridges
C) volcanoes
D) earthquakes
- What evidence in rocks supports the theory of seafloor spreading?
A) plate movement
B) magnetic reversals
C) subduction
D) convergence
- Which type of plate boundary is the Mid-Atlantic Ridge a part of?
A) convergent
B) divergent
C) transform
D) lithosphere
- What theory states that plates move around on the asthenosphere?
A) continental drift
B) seafloor spreading
C) subduction
D) plate tectonics

9. What forms when one plate slides past another plate?

- A) transform boundary
- B) divergent boundary
- C) subduction zone
- D) mid-ocean ridge

10. When oceanic plates collide, what volcanic landforms are made?

- A) folded mountains
- B) island arcs
- C) strike-slip faults
- D) mid-ocean ridges

11-17 in Journal

Thinking Critically

Choose 2 for 5-6 sentence open responses +

11. Why do many earthquakes but few volcanic eruptions occur in the Himalaya?

Top
Ocean
webs.

12. Glacial deposits often form at high latitudes near the poles. Explain why glacial deposits have been found in Africa.

Do
short
Answers

13. How is magnetism used to support the theory of seafloor spreading?

For
the rest.

14. Explain why volcanoes do not form along the San Andreas Fault.

15. Explain why the fossil of an ocean fish found on two different continents would not be good evidence of continental drift.

Developing Skills

16. **Forming Hypotheses** Mount St. Helens in the Cascade Range is a volcano. Use **Figure 9** and a U.S. map to hypothesize how it might have formed.

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in Book)

17. **Measuring in SI** Movement along the African Rift Valley is about 2.1 cm per year. If plates continue to move apart at this rate, how much larger will the rift be (in meters) in 1,000 years? In 15,500 years?

(Glue or staple in journal)