

Chapter 19 Section 2 Guided Reading

1. Alfred Wegner is credited with the hypothesis that continents have moved over time. This thought was called \_\_\_\_\_.
2. Describe the continental drift using the sidebar pictures called "From Pangaea to Today."
3. Why were Wegner's peers skeptical about his idea?
4. Name three different pieces of evidence that Wegner used to defend his hypothesis.
5. \_\_\_\_\_ was responsible for the hypothesis of sea-floor spreading.
6. Where did Hess believe that new sea-floor is created?
  - a) on the continents
  - b) at the mid-ocean ridges
  - c) at subduction zones
7. Why did the pattern of magnetic reversals along the mid-ocean ridges help to prove that the sea-floor indeed was moving apart?
8. The speed of a lithospheric plate is approximately
  - a) 5 – 15 cm per year.
  - b) 1 – 20 cm per year.
  - c) 1-10 cm per year.
9. T/F The theory of plate tectonics explains how lithospheric plates adjust to forces over time.
10. Convection cells in the \_\_\_\_\_ move the \_\_\_\_\_ plates.
  - a) mantle, lithospheric
  - b) core, mantle
  - c) lithosphere, core
11. \_\_\_\_\_ occurs at plate boundaries.
12. What is one way scientists know that plates are moving? Explain.