Chapter 19 and 20 Plate Tectonics
Review questions for Test 5 April 15 2015 (Answers may be used more than one.)

ACROSS

1 What was the name of the scientist who, in the 1930s, proposed that Mantle Convection was driving the movement of continents? (2 words)

3 How many million years ago did the old Atlantic ocean (the Iapetus) close?

4 What was the name give to the ocean that existed between North America and Africa before Pangaea formed?

5 Which part of Newfoundland formed when Pangaea slammed together?

7 The first stage in the formation of a new divergent plate boundary is a: ________________. (2 words)

9 Which ocean has a "jigsaw fit" that led Alfred Wegener to believe there had been a
Pangaea?
11 People used to think that mountains were formed by the earth cooling and:

15 Who came up with idea of sea-floor spreading in 1961? (2 words)
18 Which Canadian geologist explained the formation of the Hawaiian island chain through Hot Spot volcanism? (2 words)
20 Where did Wegener do most of his research? It's where he died in 1930.
21 What was the name of the scientist who wrote a paper on Continental Drift in 1910, five years before Wegener wrote his theory?
25 What property does volcanic rock possess when it cools in the earth's magnetic field?
29 Which word is Greek for "all earth?"
30 Which American mountain chain formed when the old Atlantic closed and North America slammed into Europe and Africa?
31 What do trees that grow in equatorial regions lack, that trees outside the tropical regions have?
32 At which sea floor features are ocean floors created?

DOWN
1 Which continent did South America fit neatly into 200 million years ago?
2 Which layer of the earth generates the earth's magnetic field? (2 words)
3 At which sea floor features are ocean floors destroyed?
6 Ocean floors are oldest near the ___________.
8 What kind of Paleozoic rock deposit indicates that huge ice sheets once covered regions that are now tropical?
10 The scientists who figured out in 1963 that magnetic reversals caused the pattern of bands of high and low magnetization on the sea floor were Vine and ___________.
12 Where does the Appalachian mountain chain terminate in North America?
13 Which layer of the earth churns and makes tectonic plates move?
14 This mineral lines up with the earth's magnetic field in lava flows and preserves the direction.
16 These are faults on the sea floor that allow ocean ridges to curve.
17 What was the giant ocean that surrounded Pangaea 200 million years ago?
19 What fern fossil was found all over the southern continents that Wegener used as proof that Pangaea existed?
22 What was the name of the supercontinent that existed before Pangaea?
23 Which way does the earth's magnetic field point at the South Pole?
24 In the 1950s, scientists who did not believe in continental drift believed that the magnetizations of lava flows could be explained by Polar ___________.
26 What force did Alfred Wegener suggest as a possible mechanism for continental drift?
27 In which decade did Plate Tectonics become the accepted theory of the earth's surface?
28 Which part of Newfoundland used to be part of Africa before Pangaea formed?

WORD BANK: Africa, appalachians, arthurholmes, atlantic, avalon, central, contracting, glossopteris, greenland, harryhess, iapatus, magnetite, mantle, matthews, newfoundland, outercore, paleomagnetism, pangaea, panthalassa, ridges, riftvalley, rings, rodinia, sixties, taylor, threefifty, tidal, tillite, transform, trenches, tuzowilson, up, wandering.