

Name \_\_\_\_\_

Date Due: \_\_\_\_\_

**UNIT 5**      **PLANET EARTH**

**Topic 4: The Moving Crust**    **Part 1**

1. List the four main layers of the Earth and briefly describe what is found in each layer.

1.

2.

3.

4.

2. **IN YOUR NOTEBOOK**, make a drawing of the Earth's interior (Fig: 5:35). Label all parts.

**Evidence for Continental Drift**

Alfred Wegener proposed that at one time all the continents were joined together in what he called a "supercontinent", that he named Pangaea. Over thousands or millions of years, the continents gradually moved to their present location. Wegener called his idea **'continental drift'**.

3. What was the main piece of evidence Wegener gave for his idea under each of the following:

Biological evidence

Evidence from Rocks

Geological Evidence of Climate

4. Why were scientists unwilling to accept Wegener's ideas?

### Advances in Technology

5. Read "Cool Tools". What does sonar stand for?

6. Describe how sonar works.

7. What did the sonar discover that was amazing?

8. What is the name of the mountain range in the middle of the Atlantic Ocean?

9. What is interesting about the pattern of magnetic fields parallel to the Mid-Atlantic ridge?

10. The pattern of magnetic reversals is thought to have been formed by the \_\_\_\_\_ - bearing minerals found in \_\_\_\_\_ rock.

11. The magnetic reversals lead scientists to believe that the sea floor was \_\_\_\_\_.

### Deep Sea Drilling

12. In terms of age, what did scientists discover about the rock samples that were brought up to the Glomar Challenger?

13. At what rate do scientists believe the ocean floor is spreading?

14. What does SCUBA stand for?