**Section 3 Notes: Plate Tectonics**

The theory of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_was proposed by Alfred Wegner he believed that a that all the continents were once connected in one large land mass and that the continents slowly moved to their present location.

The large land mass which means “All Earth” was referred t to as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Wegner used five pieces of evidence to support his theory:

1.

2.

3.

4.

5.

The problem with Wegener’s theory was that he could not explain how or what force caused the continents to move so his theory was rejected by many scientists.

It wasn’t until the 1960’s that Harry Hess proposed the idea of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, Hess proposed that hot , less dense material below the Earth’s surface rose to the surface at the mid ocean ridge . Then it flowed sideways, carrying the sea floor away from the ridge in both directions.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ proved information to scientists that new rock formed along the mid ocean ridge because when it formed the mineral arrangement in the rock change as the Earth’s polarity changed.

The theory of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ combines both theories of continental drift and sea floor spreading to explain how Earth’s tectonic plates moved.

The reason behind the movement of plate tectonics is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ deep with in the earth , where hot material rises and cold material sinks causing the plates to move.