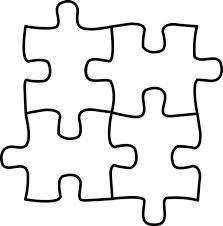
**Continental Drift – The story begins**

**As** accurate maps were developed, people noticed the continents fit together like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1912) proposed that the continents were joined together in the past and broke apart about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. There was not enough evidence for this hypothesis at the time, so it was rejected by the scientific community. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ continents have moved horizontally to their current location

**The** large landmass was called \_\_\_\_\_\_\_\_\_\_\_\_\_*(meaning all the Earth).*

**What evidence did Wegener have?**

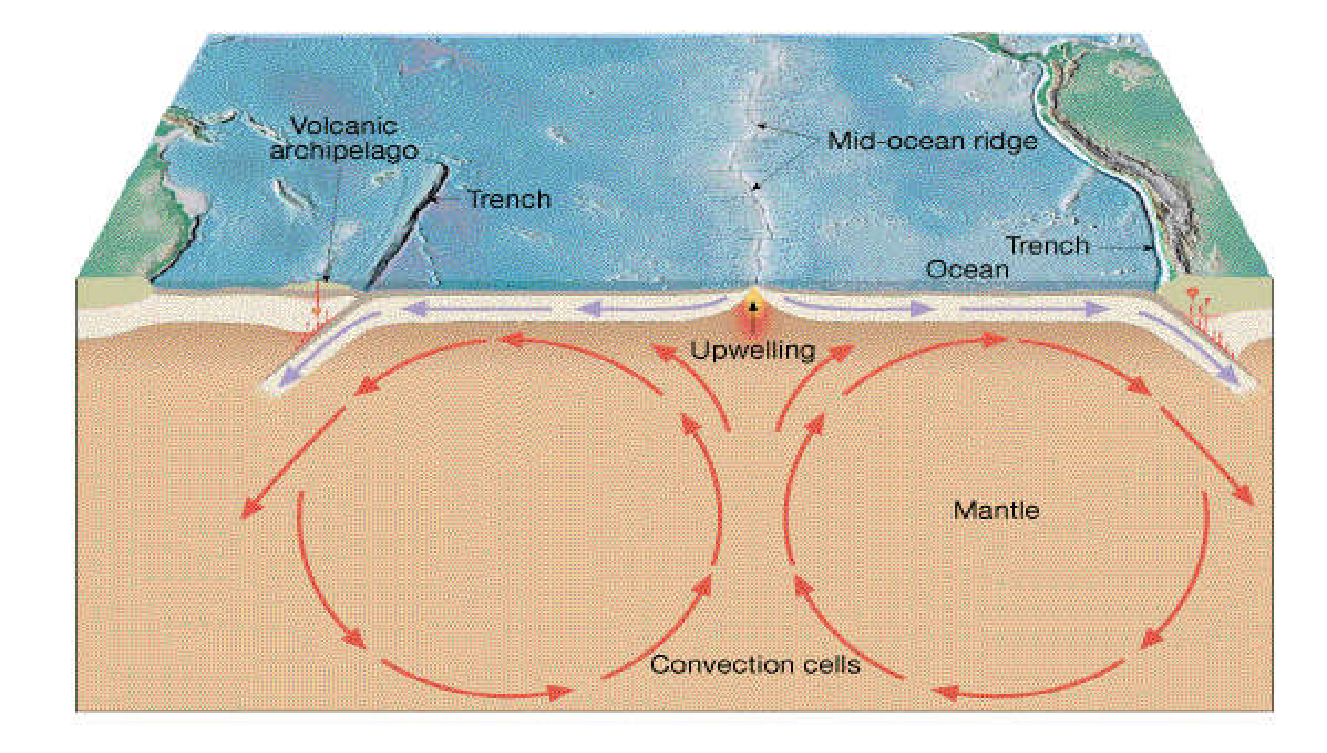
|  |  |
| --- | --- |
| Evidence | Details |
| **Fossil and Climate Clues** | Fossils like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ were found on different continents.  Fossils of warm weather plants indicate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  File:Snider-Pellegrini Wegener fossil map.gif |
| **Rock Clues** | **Similar rock structures** were found on different continents.  Ex. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**More evidence - How was continental drift finally explained?**

**Marie Tharp-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Harry Hess -\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

They suggested that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (underwater mountain chains) were formed when hot, less \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ material in the mantle (2nd layer of the Earth) is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and carries the seafloor ways from the ridge. This is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**How did they test this idea?**

|  |  |
| --- | --- |
| **Age Evidence** | Rocks in the seafloor are much \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than on the continents and the youngest rocks are at the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| **Magnetic clues** called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  http://pubs.usgs.gov/gip/dynamic/graphics/Fig7.gif | The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ core creates a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and periodically (around every 500,000 to 1,000,000 years) reverses polarity.  For example all rocks that form from cooling magma will be magnetized with north pole (magnetic north). When the magnetic field \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, rocks would crystallize and have a magnetism that lines up with the South Pole (magnetic south).  Rocks in the ocean show many \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ proving that new rock was being formed at mid-ocean ridges. |