



















between plates.

The "Ring of Fire" on Pacific coastlines is so named due to this phenomenon.

NW Volcanoes are progressively older SE   Nithou Kaua'i (5.6.4.9 Ma) O'ahu (3.4 Ma) Maui (1.3 Ma) Hewai'i (0.7-0 Ma) Mauna Loa (0.7-0 Ma)   Seamouti Eamouti O'ahu (3.4 Ma) Maui (1.3 Ma) Hewai'i (0.7-0 Ma) Mauna Loa (0.7-0 Ma)   Lithosphere PACIFIC PLATE Mauna toa (1.3 Ma) Hewai'i (0.7-0 Ma) Kilauta (1.3 Ma)   Mauna Loa Kilauta Lithosphere PACIFIC PLATE Mauna toa (1.3 Ma) Hewai'i (0.7-0 Ma)   The Hawaiian Hotspot The Hawaiian Hotspot Hewaiian Hotspot Hewaiian Hotspot	Vol	canoes and	Hot Spots		2-9 2:00 B
AU OCEA		NW Kaua'i (5.6-4.9 Ma) Seamount Lithosphere Asthenosphere	Volcances are progressively older O'ahu Moloka'i Maui (3.4 Ma) (1.8 Ma) PACIFIC PLATE Notion of draga to The Hawailan	A Pacific plate h Hotspot	

Volcanoes can also occur over <u>hot spots</u> as is the case of the Hawaiian Islands.

Scientists think that the Hawaiian Islands formed as the Pacific Plate moved toward the north-west over a hot spot.

## Summary

- The Earth's crust is divided into <u>tectonic plates</u> that move around on top of a molten layer.
- Plate Tectonic Theory (formerly known as Continental Drift Theory) is supported by several factors
  - Physical shape of continents
    - Geological and rock similarities
    - Fossil similarities
    - Climatic similarities
- The <u>*Mid-Atlantic Ridge*</u> is a divergent oceanic-oceanic plate boundary at which new rock surfaces, solidifies, and pushes older rock to either side.
- table area of the magnetic striping supports this principle.