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Hot Spot plate tectonics Hotspot Chains to Determine Plate Motion Direction/Rates ~~Major and minor Tectonic Plates~~ 240 million years ago to 250 million years in the future ~~5 Volcanoes That Could Erupt Soon~~ **The Birth of a New Island**

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The classic hotspot theory, first proposed in 1963 by John Tuzo Wilson, proposes that a single, fixed mantle plume builds volcanoes that then, cut off from their source by the movement of the Pacific Plate, become increasingly inactive and eventually erode below sea level over millions of years. According to this theory, the nearly 60° bend where the Emperor and Hawaiian segments of the chain meet was caused by a sudden shift in the movement of the Pacific Plate.

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Hawaii Hotspot Crustal Plate Movement The Hawaiian-Emperor Chain. Over a span of about 70 million years, the combined processes of magma formation, eruption, and continuous movement of the Pacific Plate over the stationary hot spot have left the trail of volcanoes across the ocean floor that we now call the Hawaiian-Emperor Chain.

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The rates of movement of crustal plates can be determined by using data from the plate margins along the mid-ocean ridges, or at regions known as "HOTSPOTS" where the distance and age can be measured. The Hawaiian Islands are volcanic islands which are produced as superheated molten material rises upward from deep within the mantle.

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The Hawaiian Island Map shows the main islands in the Hawaiian Island chain. The oldest islands are the furthest to the West from the hot spot. As the Pacific Plate moves, newer islands form. Hawaii is the youngest island and it is still being formed today; thus, Hawaii is currently at the hot spot location.

~~Tracking the Hawaiian Islands: How Fast Does the Pacific ...~~

The northwest moving Pacific Plate has moved across the 'hot spot' that created the Hawaiian Islands for millions of years. This movement has left the northwest trending island chain (of over 20 islands and atolls) we call Hawaii. As islands move northwest, away from the 'hot spot,' they begin to erode and become volcanically inactive.

~~Hawaii: Geology, Plate Tectonics/Hot Spot~~

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What Tuzo Wilson decided was that the Pacific plate was moving over three hot spots. The Hawaii-Emperor Seamounts, Tuamotu, and the Austral groups of islands each formed over a different hot spot. About 43 million years ago the Pacific plate shifted its path to a more northwesterly direction. All the island groups changed course at the same time!!

~~Hotspot Volcanoes—Hawaii and Yellowstone Lesson #9 ...~~

Earthquakes and volcanoes are the direct result of the movement of tectonic plates at fault lines. The term fault is used to describe the boundary between tectonic plates. Most of the earthquakes and volcanoes around the Pacific ocean basin—a pattern known as the “ring of fire”—are due to the movement of tectonic plates in this region.

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SWBAT analyze the formation of the Hawaiian islands over the 'Hawaii Hot Spot' in order to calculate the absolute rate of travel of the Pacific Plate. Big Idea To understand the concept of continental drift and island formation as a result of plate movement and hotspots, students calculate the rate of movement of the Hawaiian islands during their geologic history

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