The Formation of the Hawaiian Islands

by Liana Mahoney

Hawaii is one of the fifty states of the United States of America. It is unique, however, in that it is not part of the U.S. mainland. Hawaii is located in the Pacific Ocean. It is an archipelago, which means

that it's made up of a many U.S. states hav only one that is mad

With its warm to popular place for varthese islands are also deep within the earth formed.

Scientists who s were formed arounc where magma (hot, the Pacific Ocean. Tl



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st "hotspot." But that comes from raiian Islands were

t the Hawaiian Islands orming over an area and onto the floor of d and hardened into

a volcanic rock, called lava. Over time, as magma continued to ooze from the earth, the lava built up. Layer after layer accumulated over the hotspot. The layers of lava grew higher and higher, eventually forming a volcano.

Have you ever seen a conveyor belt, like the ones used at grocery stores to move your items toward the cashier? The surface upon which your items are sitting moves under them and takes them to a new place. Now, can you imagine a huge conveyor belt

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that slowly relocates a volcano? This is similar to what happened to the volcanoes that formed at the hotspot in the Pacific Ocean. In this case, a large area of the earth's crust, called the Pacific Plate, acted as the conveyor belt. At the same time that the volcanoes were being formed, the ocean floor of the Pacific Plate gradually moved and shifted toward the northwest. This movement of the ocean floor pulled the first volcano away from the hotspot. Magma continued to ooze from the hotspot, cooled and hardened, and formed a new volcano above it. This process repeated itself over and over for millions of years, creating a string of volcanoes that each, in turn, appeared above the surface of the ocean

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would take millions
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" the most beautiful

The Formation of the Hawaiian Islands

Why are the Hawaiian Islands unique? 1) What are the two different contexts the word" hotspot" is used in the passage? 2) **PREVIEW** Gain complete access to the largest collection of worksheets in all subjects! 3) What is the extra last paragraph? Members, please Not a member? Please sign up to log in to download this gain complete worksheet. access. Why are the Pac 4) www.mathworksheets4kids.com What does the author encourage readers to do in the final paragraph? 5)