Are you smarter than a volcano?

Myth vs. Reality about volcanoes in Hawai'i

1.Kīlauea is the only active volcano on the Island of Hawai'i



Photo by Explore The Big Island

False!

There are five volcanoes on the Island of Hawai'i. Four of them are considered active: Kīlauea, Mauna Kea, Mauna Loa, and Hualālai.

2. Kīlauea was an inactive volcano until the 2018 eruption

Kīlauea has periodically erupted throughout history. It erupted nearly continuously between January 1983 and August 2018.



Photo by Geology in Motion

3. Lava is the name for magma that has come out of the Earth's crust

True!

Lava is what we call magma after it has come out of the Earth's crust.



Photo by Earth How, 2017

4. All volcanoes are formed

in the same way



U.S. Geological Survey



Not all volcanoes form in the same way. Volcanoes in Hawai'i erupt from a hot spot in the Earth's mantle.

Photo by Stephen R. Mattox

5. Hawai'i is located on the Pacific Ring of Fire

The Pacific Ring of Fire is a zone of many volcanoes that borders most of the Pacific Ocean, but does not include Hawai'i. Hawai'i is on a hot spot.



Photo by Global Geopolitics, 2018, Astroskiandhike via Creative Commons 4.0

6. The world's largest volcano is on the Island of Hawai'i

Mauna Kea is the TALLEST MOUNTAIN (height is measured from the base to the summit)



Photo by Geology.com

True!

In fact, two of the world's largest volcanoes are located on the Island of Hawai'i. Mauna Loa is the most massive in volume. Mauna Kea is the world's tallest from ocean floor to its highest elevation.

7. It is currently very dangerous to visit Hawai'i Volcanoes National Park because of the 2018 eruption

- While the 2018 eruption events affected many sites on the Island of Hawai'i, it is safe to visit Hawai'i Volcanoes National Park. Visit the park website at www.nps.gov/hawaiivolcanoes for the most up-to-date safety
- precautions.



Photo by NPS, Jessica Ferracane

8. Hawai'i Volcanoes became a national park in the last 50 years



Hawai'i Volcanoes became a national park on August 1, 1916. That makes it over 100 years old!

Photo by Wild Post Cards

9. In Hawaiian culture, Pele is the goddess responsible for volcanic eruptions.

Painting by Herb Kane

True!

In traditional Hawaiian culture, Pele is the goddess of volcanoes. She makes her home in Halema'uma'u crater at the summit of Kīlauea volcano.

10. Hawai'i Volcanoes National Park is famous for its natural and cultural resources

True!

Hawai'i Volcanoes National Park was selected as a UNESCO (United Nations Educational, Scientific and Cultural Organization) World Heritage Site in 1987.



treasures and designated as a World Heritage Site for its outstanding values important to the heritage of humanity.

Photo by UNESCO

Citations

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