

Writing: Volcano 1

Aisha wonders what is related to the power of a volcano's eruption.

On a field trip to a science museum, Dr. Martin tells Aisha that he studies large volcanoes from around the world. Aisha learns that the largest volcano on Earth is Mauna Loa, and that it is the newest of the volcanoes in the Hawaiian Islands.



Figure 1. *The Mauna Loa Volcano in Hawaii.*

Aisha learns that the magma from some volcanoes has more gas bubbles and is thicker than the magma in other volcanoes. She also learns that the power of an eruption is related to the amount of pressure built up by the magma inside the volcano. The thickness of the magma and the number of gas bubbles in the magma affect how explosive the volcanic eruption is.

Aisha found the table below:

Volcano	Average Surface Temperature at the eruption site	Power of Eruption (VEI Scale: 0 to 8)	Thickness of Magma	Number of Gas Bubbles in Magma
A	6 °C	6	Sticky	Many
B	24 °C	5	Sticky	Many
C	18 °C	3	Sticky	Many
D	31 °C	2	Runny	Few
E	12 °C	1	Runny	Few

