

# STUDENT PAGE

## Geology Lesson 1: Volcanic Landscapes

### TYPES OF VOLCANIC ERUPTIONS



#### MILD/ GEYSER ERUPTION

Hydrothermal, geysers, hot springs, mud pots.



#### MODERATE/HAWAIIAN ERUPTION

Explosive molten lava with very hot magma.



#### VIOLENT/ PLINIAN ERUPTION

Pyroclastic flows. Lots of gas! Vicious, cool magma, gas blasts out with enormous force. Explosions shatter the magma in dust and ash. Scorching, glowing clouds of ash and fumes that race down the sides. Pumice.

## STUDENT PAGE

### Geology Lesson 1: Volcanic Landscapes

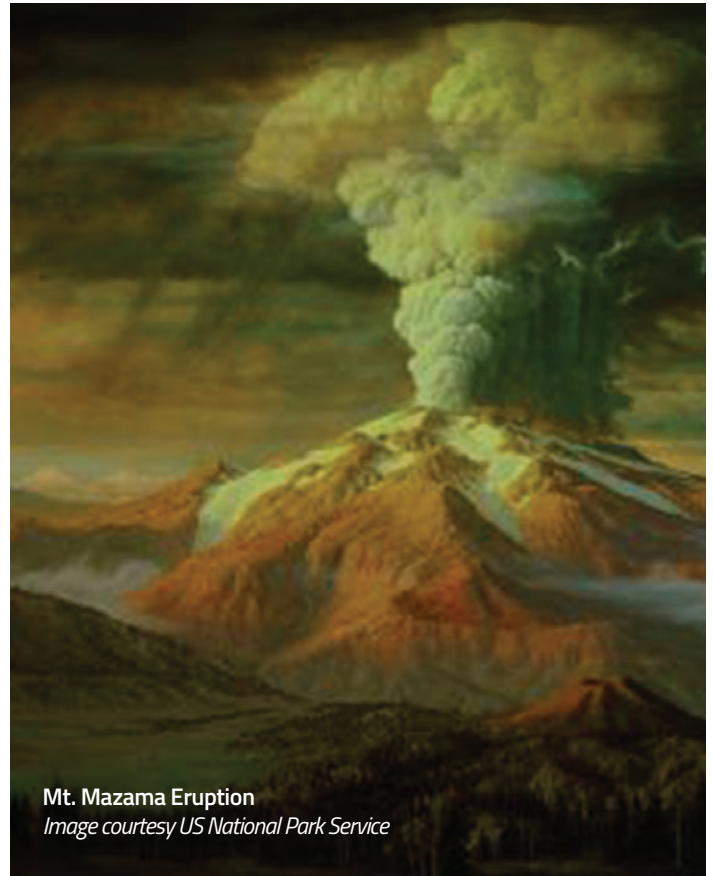
## TYPES OF VOLCANIC ERUPTIONS (CONTINUED)



ASO VOLCANO CALDERA  
*Image courtesy Creative Commons*

### CALDERA ERUPTION

The present caldera in Aso Geopark was formed approximately 90,000 years ago by a huge eruption. Pyroclastic flow deposits from that eruption have been discovered in Yamaguchi Prefecture as well as across the Ariake Sea in Shimabara and Amakusa. Aso is one of the world's most active volcanoes.



Mt. Mazama Eruption  
*Image courtesy US National Park Service*

### VERY VIOLENT CALDERA ERUPTION

Pyroclastic flows. Lots of gas! Vicious, cool magma, gas blasts out with enormous force. Explosions shatter the magma in dust and ash. Scorching, glowing clouds of ash and fumes that race down the sides. Pumice. Much, much larger and more violent than any other volcano type.