

NAME _____
Regents' Earth Science / Mrs. Fink

DATE _____
Unit: The Dynamic Earth

Dante's Peak: The Aftermath

In the movie Dante's Peak, how easy was it to tell what was fact or fiction? Even though we know that the mountain was a figment of Hollywood's imagination, it sure seemed real while we were watching.

After the release of the movie, several groups of scientists looked closely at the geological aspects that were incorporated into the film and analyzed how real they were. Some of these issues are listed below. Your task today is to figure out – are they fact or fiction????

Websites to check out:

<http://www.geol.umd.edu/pages/facilities/lmdr/dante/dante.htm>

<http://vulcan.wr.usgs.gov/LivingWith/PopCulture/DantesPeak/framework.html>

http://www.open2.net/science/hollywood_science/dante.htm

<http://www.vfxhq.com/1997/dante.html>

<http://web.archive.org/web/19971212020746/http://www.dantespeak.com/>

Geologic Event	Fact or Fiction?	Explanation
Volcanoes can exist in the Cascade Range of Washington State		
Hot springs can fill with magma and become so hot that they scorch bathers		
Lakes near the volcano become acidic		
Plants and animals near the volcano could die		
A volcanic eruption is preceded by small earthquakes		

Geologic Event	Fact or Fiction?	Explanation
Scientists use robots to explore volcanoes		
The volcano produced large amounts of ash		
The eruption was extremely explosive		
The eruption included large amounts of magma being thrown into the air		
The lake was acidic enough to dissolve the bottom of the boat and kill Grandma		
The volcano erupted suddenly after years of inactivity		
Harry Dalton was able to drive his truck across the lava bed		
The volcano produced earthquakes and shockwaves that destroyed buildings, bridges, etc.		
Scientists can use evidence to predict that volcanoes will erupt		
The town's water supply can become contaminated before an eruption occurs		
The volcanic eruption and seismic tremors can produce large mudflows and debris flows		