

# Volcanoes

Lesson Presentation for  
Elementary



# Volcanoes Explained



An aerial photograph of a mountain range with significant snow cover. A large, distinct caldera is visible in the center-right of the image, characterized by a deep, roughly circular depression at the summit. The surrounding peaks and ridges are also heavily snowed, with some rocky outcrops visible. The sky is a clear, pale blue.

# Important Vocabulary

- Volcano –

a mountain formed by lava & pyroclastics

- Crater –

opening at the top of a volcano

- Caldera –

summit depression  $>1$  km-usually caused by collapsed magma chamber

# Volcano V Crater



**A volcano is a vent or fissure on the surface of a planet (usually in a mountainous form) with a magma chamber attached to the mantle of a planet or moon, periodically erupting forth lava and volcanic gases onto the surface while crater is (astronomy) a hemispherical pit created by the impact of a meteorite or other object or crater can be a term of endearment, a dote, a wretched thing.**

**Impact craters are formed by the outward explosion of rocks and other materials from a volcano.**



## Life on MARS- brainstorm

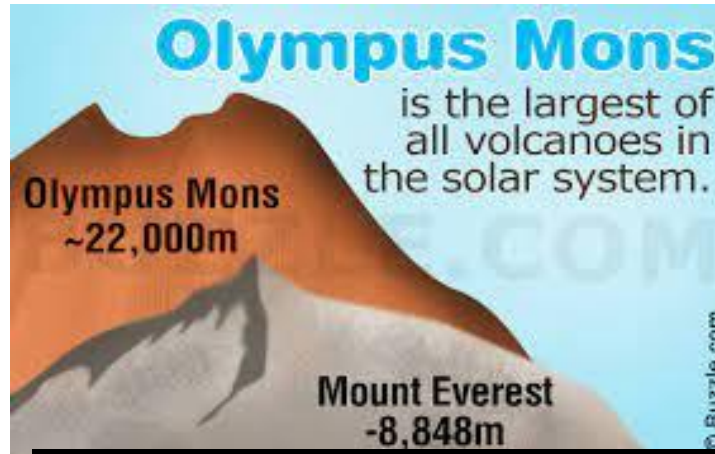
What would It be like to live on mars?

Discuss questions we have about Mars- ie. Color,life, oxygen,atmosphere?

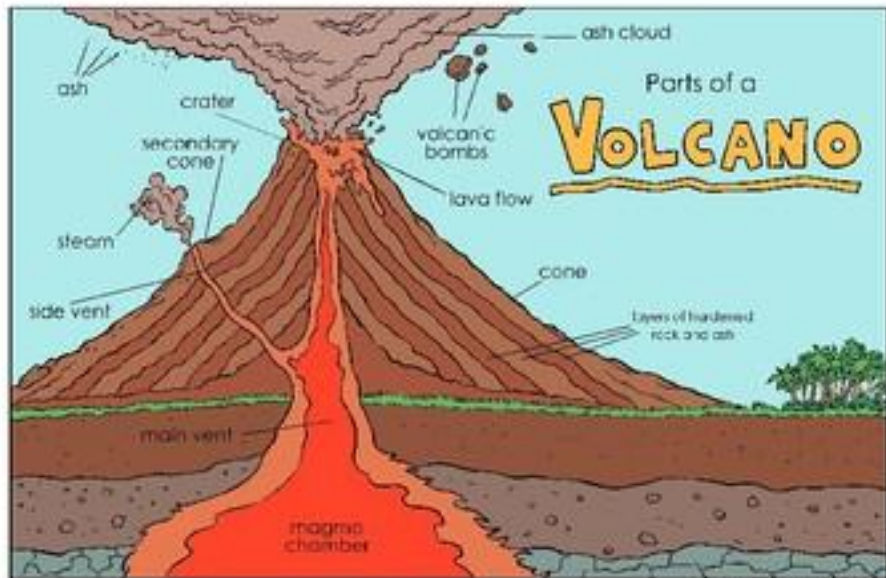


# Olympus Mons

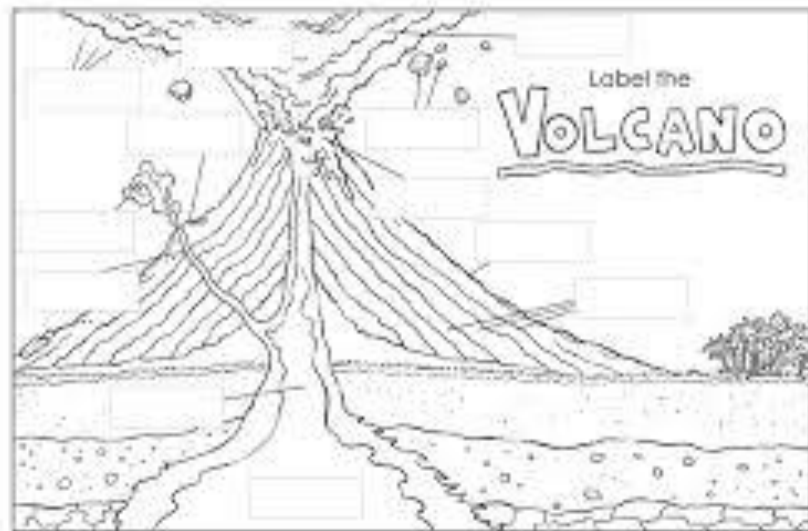
- It is no longer active but has a core so it has marsquakes.
  - Doesn't have as much energy as earth.
  - Mars does not have oceans or an atmosphere
  - no oxygen
  -
- Iron in rocks is oxidized.**  
**WE LIVE ON THE BEST PLANET IN THE SOLAR SYSTEM**



# Label the Volcano!



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crater	main vent	volcanic bombs	lava flow	cone	side vent
magma chamber	ash	secondary cone	steam	layers of hardened rock and ash	ash cloud

Volcanoes are fun and interesting!





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