

Volcanic Landforms Reading Guide:

This is a list of web resources with reading materials and video clips relevant to the topic of volcanic landforms. After looking at the following information students should be able to describe stratovolcanoes, shield volcanoes, cinder cones, calderas, and volcanic domes by answering the following questions:

- 1) What is the shape and size of the volcanic landform (hint: you might describe it relative to the others, you might draw a sketch of each)
- 2) What is the eruptive style or how does this volcanic landform form?
- 3) What rock types are produced in association with this volcanic landform?
- 4) What is the tectonic context of this volcanic landform?
- 5) What is an example of this landform somewhere on earth?

<http://volcano.oregonstate.edu/types-volcanoes>

This “volcano world” webpage from Oregon State has some short descriptions (text and images) of a variety of different types of volcanic landforms including shield volcanoes, stratovolcanoes, rhyolite caldera complexes, monogenetic fields, flood basalts, mid-ocean ridges. Navigate between each volcano type using the link on the right side of the page. Discussion questions to follow the readings could include questions such as: what is the difference in eruptive style between the different types of volcanoes, what kinds of magma are produced are each type of volcano, how do the size of these features vary, how do the shape of these landforms vary.

<http://volcano.oregonstate.edu/lava-domes>

This “volcano world” webpage from Oregon State has a good description of lava domes (text and images). Navigate using the links on the right side of the page.

<http://volcano.oregonstate.edu/hydrovolcanic-landforms>

This “volcano world” webpage from Oregon State has a good description of hydrovolcanic landforms (text and images). Navigate using the links on the right side of the page.

<http://www.pbs.org/wgbh/nova/earth/meet-volcanoes.html>

This is a video clip from NOVA that describes shield volcanoes, cinder cones, lava domes, and stratovolcanoes.

<https://opentextbc.ca/geology/>

This is an open source geology textbook. Chapter 4 focuses on volcanism.

http://www.geology.sdsu.edu/how_volcanoes_work/

This is Vic Camps volcanoes website.