

SIO 15 TOPIC 09: VOLCANOES AND PLATE TECTONICS

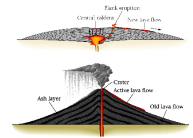
Leftovers from Topic 8

<http://www.volcano.si.edu/>

Volcanic Material and Hazards

The two Principal Types of Volcanoes

watch video 7c



Styles of Volcanism and the 3 Vs

watch video 7a

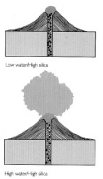


Plate Boundaries and Volcanism

Mid-ocean Ridges

Rifts and Intra-plate Hotspots



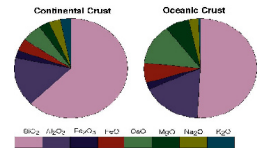
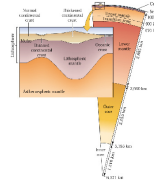
Subduction Zones

Plate Boundaries with NO volcanism

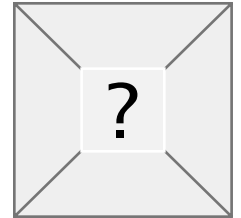
Viscosity and volcanism

Crustal Rock Viscosity: Continents and Oceans

watch video 7c Crustal Rock Viscosity

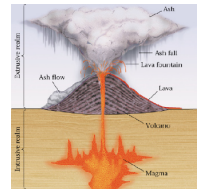


The 2 Factors controlling Viscosity



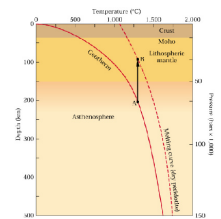
Rocks and Minerals

watch video 7d



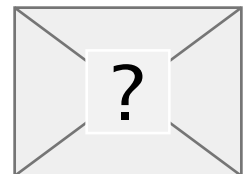
The Geotherm please download special handout!

watch video 7e



Decompression Melting

Injection of Volatiles



Magma Minerals and Partial Melt

