

1. List the sequence of events leading to the eruption of Mount St. Helens on May 18, 1980.

2. List some of the effects of this eruption.

3. What are the three factors that determine the nature of a volcanic eruption and how do they affect the viscosity of a magma?

4. Compare, contrast, and give examples of 3 different types of igneous rock compositions.

<b>Rock type</b>	<b>basalt</b>	<b>andesite</b>	<b>rhyolite</b>
<b>composition</b>			
<b>Silica content</b>			
<b>viscosity</b>			

<b>Rock type</b>	<b>basalt</b>	<b>andesite</b>	<b>rhyolite</b>
<b>fluidity</b>			
<b>gas content</b>			
<b>amount of pyroclastics</b>			
<b>volcanic landforms</b>			

5. Describe these types of volcanic materials:

pahoehoe flow

aa flows

lava tubes

pillow lavas

volcanic gases (volatiles)

pyroclastic materials

welded tuff

cinders

bombs

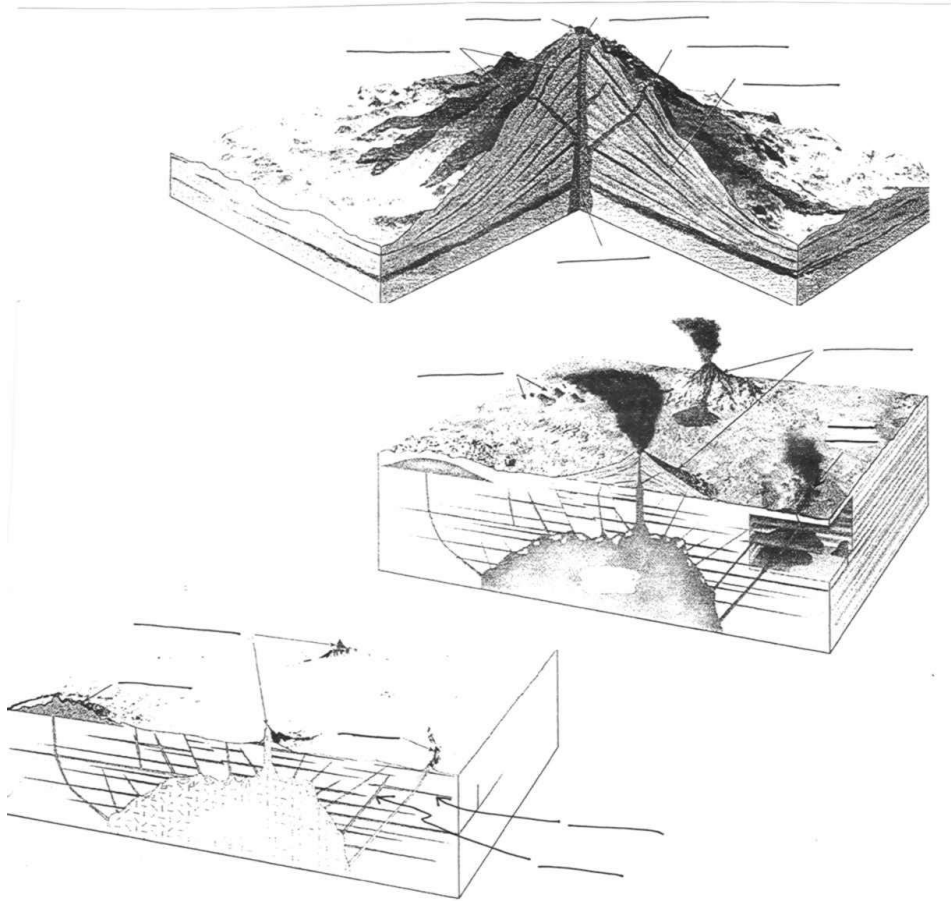
nuee ardente

lahar

flood basalts

lava domes

6. Label these landforms on the diagrams below: vent, crater, lava flow, dike, sill, conduit or pipe, volcanic neck, composite cone, cinder cone, fissure eruption, batholith, caldera



8. Compare, contrast, and give examples of 3 different types of volcanic environments: hot spots, subduction zones, and oceanic rifts.

<b>characteristic</b>	<b>hot spots</b>	<b>subduction zones</b>	<b>oceanic rifts</b>
rock type			
violence of explosion			
fluidity of lava			
silica content of lava			
examples			
types of hazards			
safe distance			

9. Write an essay (one paragraph or at least half a page) on volcanoes, based on your reactions to the movies, the lecture, and any other experiences you have had with volcanic activity.