

E-prep Igneous Activity

Overview of the Chapter:

1. Before reading or looking at the chapter, write down what you know about volcanoes and igneous rocks– from prior experiences
2. Write down 3 questions of your own that you want to know about volcanic activity and volcanoes
3. Look through the chapter and find 5 figures that capture your interest and briefly describe your each figure.

Chapter Questions

1. What is viscosity and describe factors that affect viscosity
2. How does silica content affect the viscosity of a magma?
3. What is the importance of dissolved gasses in a magma?
4. Describe the differences between pahoehoe and aa type lava flows
5. List the main gasses released during a volcanic eruption
6. Describe the three main types of volcanoes (size, shape, eruptive style)
7. What is the ring of fire
8. Look on page 211 (5th edition) figure 7.22 Define the following intrusive rock structures
 - a. Batholith
 - b. sill
 - c. dike
 - d. laccolith
 - e. stock
9. Describe the plate tectonic setting (type of boundary) that typically forms shield and composite type volcanoes
10. Describe the plate tectonic setting that is responsible for the formation of the Cascade Range (Oregon and Washington)