

Albuquerque Volcanoes and the Rio Grande Rift  
Geology I Field Trip

---

**Stop 1 – Overview**

What are the names of the 5 largest volcanoes in the field? Label on Volcano Ranch, NM topo map.

What topo maps are used for...

Latitude/Longitude:

Age of volcanoes? Future eruptions?

Which is the highest of the ABQ volcanoes? Maximum elevation?

Are the volcanic vents randomly placed? In a pattern or alignment? Why?

---

---

**Stop 2 – Black**

Describe the appearance and nature of the surface volcanic rock.

Types of volcanoes:

What is a fault? How does it affect volcanic alignment of this field?

Recent history of the ABQ volcanoes:

Possible vocab words: Igneous rock

Basalt

Scoria

Fissure eruption

Cinder cone

Fault

Mafic

Monogenetic

---

Sketch of Vulcan:

---

**Stop 3 – Vulcan Pit**

Big Picture – Rio Grande Rift:

Sketch of Rio Grande Rift:

Possible vocab words:

Viscosity

Spatter Cone

Basalt flows

Pahoehoe

Aa

Plate Tectonics

Rift

Draw the south side of the crater:

Possible vocab words: Crater

Columnar jointing

Lava pond

---

### **Stop 6 – Lava Tubes – Small scale structures**

Describe and draw the tubes:

How did they form?

Describe the erosion of these structures.

---

**Stop 7 – Volcanic Bombs – Watch out!!**

What is a volcanic bomb and how does it form?

Find a bomb and sketch it.