

## Google Earth® Volcano Tour

Geology

Mr. Traeger

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

### **Background and Directions**

In this exercise, you will take a virtual tour around the world in Google Earth® to look at different types of volcanoes. Launch Google Earth® with plate boundaries overlain by going to this link.

<http://earthquake.usgs.gov/regional/nca/virtualtour/global.php>. Click on %tectonic Plates of the World.+ Google Earth® should load. Under %layers,+click the plus sign next to %Gallery.+Scroll down and click the checkbox titled %volcanoes.+The volcanoes of the world should now appear if you zoom in far enough. Take a geographic journey around the world and report on the following types of volcanoes.

### **Part 1: Finding Different Volcanic Structures**

Find examples of the following types of volcanoes and fill in the appropriate information for each one of them. Use *Google Earth®* for this.

	<b>Shield Volcano</b>	<b>Cinder Cone/Lava Dome Volcano</b>
Volcano Name		
Location (City, State, Country)		
Latitude & Longitude	Lat.:  Lon:	Lat.:  Lon:
Summit Elevation in meters?		
Appearance (steep sides, gentle sides?) Sketch it.		
Active, dormant, or extinct?		
Has it ever caused property damage and/or loss of life? If so, how bad?		
Is this volcano located at a hot spot, divergent zone, or convergent subduction zone?		
What type of eruption was caused? Gentle or explosive? Fluid lava flows or pyroclastic flows?		
Rock Type? Basaltic, Andesitic, Rhyolitic?		

## Google Earth® Volcano Tour

Geology

Mr. Traeger

	Stratovolcano/Composite Volcano	Caldera
Volcano Name		
Location (City, State, Country)		
Latitude & Longitude	Lat.: Lon:	Lat.: Lon:
Summit Elevation in meters?		
Appearance (steep sides, gentle sides?) Sketch it.		
Active, dormant, or extinct?		
Has it ever caused property damage and/or loss of life? If so, how bad?		
Is this volcano located at a hot spot, divergent zone, or convergent subduction zone?		
What type of eruption was caused? Gentle or explosive? Fluid lava flows or pyroclastic flows?		
Rock Type? Basaltic, Andesitic, Rhyolitic?		

### **Part 5: Summative Assessment**

1. What do plate tectonics have to do with the type and/or explosiveness of the volcanoes that you found? Do you notice any patterns? If so, what are those patterns?