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 ove				
Google Earth® should load. Under %ayers,+click the plus sign next to %Gallery.+Scroll down and click the checkbox titled %Golcanoes.+The volcanoes of the world should now appear if you zoom in far enough.					
Part 1: Find Shield	ourney around the world and report on the	ne following types of volcanoes.			
	oes and fill in the following chart. Use Go	oogle Earth® for this.			
	Volcano #1	Volcano #2			
Volcano Name	Mauna Loa	Theistareykjarbunga			
Location (City, State, Country)	Hawaii, USA	Northeastern Iceland			
Latitude & Longitude	Lat.:	Lat.:			
	Lon:	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?					

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<u>Part 2: Find Cinder Cone/Lava Dome Volcanoes</u>
Find 2 cinder cone volcanoes and fill in the following chart. Use *Google Earth*® for this.

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	Volcano #1	Volcano #2
Volcano Name	El Chichón	Sunset Crater
Location (City, State, Country)	Chiapas, Mexico	Flagstaff, Arizona, USA
Latitude & Longitude	Lat.:	Lat.:
	Lon:	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?		

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<u>Part 3: Find Stratovolcanoes/Composite Volcanoes</u>
Find 2 stratovolcanoes and fill in the following chart. Use *Google Earth*® for this.

	Volcano #1	Volcano #2
Volcano Name	Pinatubo	Nyiragongo
Location (City, State, Country)	Luzon, Philippines	Democratic Republic of Congo
Latitude & Longitude	Lat.:	Lat.:
	Lon:	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?		

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Part 4: Find Calderas
Find 2 caldera super volcanoes and fill in the following chart. Use Google Earth® for this.

·	Volcano #1	Volcano #2
Volcano Name	Yellowstone	Long Valley
Location (City, State, Country)	Wyoming, USA	California, USA
Latitude & Longitude	Lat.:	Lat.:
•	Lon:	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?