

25 Points

# Locating Volcanoes

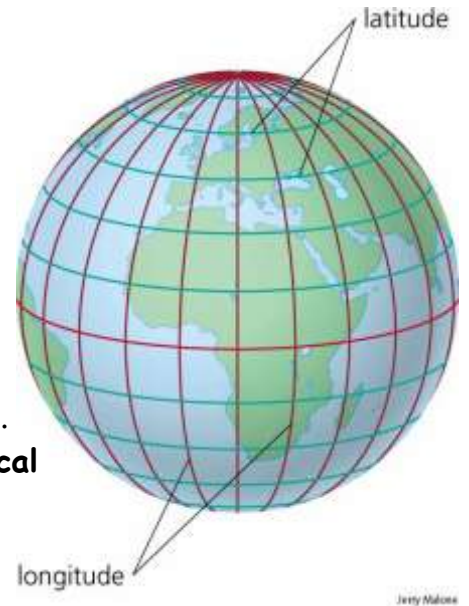
## Computer Exploration

Name: \_\_\_\_\_

Period: \_\_\_\_\_

### Procedure:

1. Use the internet to locate at least 10 active volcanoes.
2. Use the internet to locate **5 historical eruptions**.
3. Some useful websites:
  - a. <http://volcano.und.nodak.edu>
  - b. <http://hvo.wr.usgs.gov>
  - c. <http://volcanoes.usgs.gov>
4. **Plot the locations of** all your volcanoes & eruptions on the blank world map. Use latitude and longitude as a guide. **If latitude and longitude are not given, look at a political world map online.**
  - a. Ex: Mount St. Helens = 46°N, 122°W
  - b. Political world map:  
[http://www.lib.utexas.edu/maps/world\\_maps/world\\_pol\\_2004.pdf](http://www.lib.utexas.edu/maps/world_maps/world_pol_2004.pdf)
5. Neatly **label** the volcano names on the map. If the volcano is a historic eruption, write the year that it erupted.
  - a. Ex: Mount St. Helens, 1980
6. **Compare** your volcano map with the map of earthquake epicenters in Figure 9 on page 226 and the map of plate boundaries in Figure 8 on page 256 and 257 in your textbook.
7. Answer the conclusion questions.



### Conclusion Questions:

1. What is the relationship between the locations of the volcanoes that you plotted and the earthquake epicenters on the map (p.226 textbook)?
2. What is the relationship between the locations of the volcanoes that you plotted and the plate boundaries on the map (p.256 textbook)?
3. If there have been many volcanic eruptions in one area, would the area be a likely place for earthquakes to occur? Explain your answer.

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4. Use your volcano map to predict if a volcanic eruption would be likely or not likely in each of the following areas:

Area	Likely	Not Likely
1. Eastern coast of North America		
2. Eastern coast of South America		
3. Spain		
4. Italy		
5. Japan		

## Video Field Trip: Death & Destruction

*Before Watching:*

1. Describe the three types of volcanoes in the table below. Use your lecture notes and textbook for help.

Volcano Type	Description (shape, gentle/violent eruption, etc.)
Shield Volcano	
Cinder Cone	
Composite Cone	

*Take a field trip to the ancient city of Pompeii with Discovery Channel and find out how the eruption of Mount Vesuvius destroyed a civilization. Answer the following questions after watching the video.*

1. Judging from its eruption, what **type** of volcano is Vesuvius?
2. Are the cities near Vesuvius any safer today than they were in 79 A.D?
3. **WHY or WHY NOT?**