**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD: \_\_\_ DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**HONORS VOLCANIC INQUIRY QUESTIONS** (ANSWER QUESTIONS ON A SEPARATE SHEET OF PAPER)

1. Where are most continental volcanoes located and why?
2. Explain how continental volcanoes are formed.
3. Explain the two primary ways by which volcanoes are formed on the ocean floors.
4. Compare and contrast explosive and effusive eruptions.
5. What is viscosity? Provide examples to illustrate differences in viscosity.
6. Explain the role of silica and gas content in determining the characteristics of magma.
7. Briefly describe the different types of volcanic eruptions (e.g. Hawaiian, Strombolian, Vulcanian, Plinian, Lava Dome, Surtseyan)
8. Describe the three stages of volcanic activity.
9. Describe the different type of lava flows.
10. How are lava plateau formed?
11. Compare and contrast island arcs and volcanic island chains.
12. How are calderas formed?
13. Explain what causes hot springs and geysers.
14. Describe the following volcanic hazards:
15. Pyroclastic flow
16. Lahars
17. Volcanic Gases
18. Volcanic Ash
19. Tephra (ash, lapilli, bombs)
20. Describe three benefits of volcanoes.
21. Identify, draw and label the parts of a volcano (e.g. magma chamber, magma conduit, vent, ash plume, dike, sill, tephra, pyroclastic flow, etc.)