

8T Assignment #9: Volcanoes & Volcanic Hazards

Name _____

1. What kind of magma led to the creation of the Long Valley Caldera: **low or high** viscosity? *Circle one. **Clearly explain your answer.***
2. What is tephra, and what kind of hazards does tephra present to people?
3. What kind of magma is most likely to lead to a pyroclastic flow: **low or high** viscosity? *Circle one. **What does a pyroclastic flow consist of and why is it dangerous?***
4. What kind of magma is most likely to form a lava dome: **low or high** viscosity? *Circle one. **Why are lava domes dangerous?***
5. Why is earthquake activity monitored at Long Valley caldera → what relationship do the earthquakes have to volcanism?
6. What volcanic gas has been causing problems in the vicinity of Long Valley Caldera and what are these problems?