ES 11 **Volcano Worksheet #2** Name:

1. What factors (contents of magma) affect how explosive an eruption will be?
2. What type of lava would form a lava dome?
3. Would a crater be formed by an explosive or effusive eruption?
4. Compare the types of magma in the chart below:

|  |  |  |
| --- | --- | --- |
|  | Mafic Magma | Felsic |
| colour |  |  |
| Silica content |  |  |
| Viscosity |  |  |
| Type of eruption |  |  |
| Where found |  |  |

1. Name and describe 4 types of lava flows.
2. Name and describe 4 types of tephra.
3. Why is pyroclastic flow so dangerous?
4. Explain how volcanoes can affect climate.
5. Explain why felsic lava would tend to produce composite volcanoes and cinder cones rather than shield volcanoes.
6. While exploring a volcano that has been dormant, you observe volcanic ash first and lapilli later. Are you more likely to be moving toward or away from the volcanic opening? Explain your answer.
7. Explain how what a pluton is and give 4 examples.
8. Name some hazards a community living near active volcanoes may encounter.
9. Name 4 signs that a volcano is likely to erupt.