Sci 8 **Volcano WS** Name:\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the difference between magma and lava?
2. What type of volcano do you think you have found if you see thin lava flows that stretched for many kilometers?
3. Sometimes some volcanoes will spew out gas, ash and rocks instead of lava. Suppose you are hiking near one such volcano that erupted a month ago and found first some ash and then as you kept walking, later found increasingly larger rocks, do you think you would be walking *toward* the volcano or *away* from it? Justify your answer.
4. You see a low, dome shaped volcano. What type of volcano are you looking at and what type of material would you expect to erupt from it?
5. You just moved to a town and are told it is next to an old cinder cone volcano that erupted once many years ago, would you expect it to erupt anytime in the near future? Why or why not?
6. Explain why shield volcanoes have a wide base.
7. If you see a steep volcanic cone that is only 300m high, what can you assume about what **type it is** and **what comes out of it**?

*Different volcanoes present different hazards. Compare the hazards of the following two scenarios:*

1. The town of Squamish, BC, lies in the valley next to Mt. Garibaldi, a stratovolcano. What sorts of hazards (name at least four) do you think the residents of Squamish would MOST likely encounter if Garibaldi were to erupt?
2. What types of hazards do the residents in Hawai’i living near the Kilauea volcano (Shield) need to be aware of?

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| --- | --- | --- | --- |
|  | Cinder Cone | Composite | Shield |
| Shape |  |  |  |
| Composition |  |  |  |
| Type of eruptive material |  |  |  |
| Drawing |  |  |  |