Name:

Mafic Rock: Dark, dense, runny when molten, found in ocean crust, found in gentler volcanoes Felsic Rock: Light in shade, not as dense, gooey when molten, found in continental crust, makes volcanoes explosive

**Asterisks indicate questions that will not be directly answered by the characters or the narrator. You must use your prior knowledge and judgment.

- 1. **In the opening scenes, is most of the lava mafic or felsic? Judge by the color/shade of the lava.
- 2. **Is Kilauea made of mafic or felsic rock
- 3. How deep is the source of Kilauea's magma?
- 4. Maurice says there are two dangers of the lava lake. What is one of those dangers?
- 5. Scientists' equipment is easily damaged by the conditions on a volcano. What survives better than equipment?
- 6. The Longai volcano, in Tanzania, has strange lava. What causes that lava to melt at a very low temperature?
- 7. **Maurice has a skull that he found when he explored the eruption of El Chichon volcano, in Mexico. Did that eruption appear to be caused by mafic or felsic magma?
- 8. Where are 90% of the world's volcanoes found?
- 9. How close can you get to 2000 degree lava before you get burned?

- 10. According to the video, which side of the Hawaiian islands is growing new land?
- 11. **According to your previous answer, toward which direction must the ocean crust beneath Hawaii be moving?
- 12. Why did the researchers' pants split early in their career?
- 13. **Is the Iceland lava mafic or felsic? (judge by color)
- 14. **Do the eruptions of Indonesian volcanoes seem to be dominated by mafic or felsic eruptions?
- 15. The researchers floated on a lake. What was the main ingredient of the lake?
- 16. According to Maurice, how long would it take for the lake to dissolve a human?

17. In one scene, a partially buried goat is rescued. Was the goat buried by a gentle or a violent volcanic eruption? Explain how you can tell.