

NOVA Deadliest Volcanoes Video Questions

Name _____

Class _____

Date _____

Please provide very brief, to the point answers in point-form only. The exception is question 23, which will require a more in-depth written answer. Some of the questions are not discussed in the video directly, but will require you to relate to course content we have already covered.

1. What is magma? What causes magma to erupt out of a volcano?
2. What were the major losses associated with the 2010 Volcanic eruption in Iceland? What specific aspect of the volcanic eruption caused these losses?
3. What is the Ring of Fire?
4. How is Yellowstone different from most other volcanoes?
5. What process is responsible for the volcanic activity in Yellowstone National Park?
6. If Yellowstone were to have a major eruption, what would be some of the major effects?
7. How are volcanoes and earthquakes related?

16. What might be causing the ground to rise and fall in Naples?

17. How is a volcano similar to a bottle of soda?

18. How can measuring CO₂ be used to predict volcanic explosions?

19. Why must several different technologies and strategies be used to monitor all of the volcanoes that pose a threat to humans?

20. What is a *lahar*? What is the only way to mitigate loss of life when a lahar strikes?

21. What technologies exist that allow scientists to monitor volcanic activity? You must discuss at least 4 examples from the film. What is being monitored and what information does it reveal?(Hint: there were many examples discussed *throughout* the whole video)