

Deadliest Volcanoes: PBS Documentary Questions

1. There are more than _____ active volcanoes around the globe.
2. What exactly triggers these eruptions? The answer lies several miles below the surface in the _____.
3. Explain what causes a volcanic eruption. _____

4. Iceland April 2010: A volcano erupted and threw large amounts of ash into the air, all across _____.
5. If magma moves into a volcano, it will push the ground _____, which the GPS sensors will be able to pick up.
6. It starts out as a beautiful, harmless event; but over the next 3 weeks that changes. It erupts more magma that mixes with _____ on top of the volcano, creating huge clouds of ash. Video captures _____ discharging from inside the cloud. The cloud rises _____ feet into the sky.
7. This isolated spot in the North Atlantic causes the worst airline disruption since _____. The total cost is over _____.
8. Yellowstone National Park, Wyoming: Yellowstone is a _____ volcano.
9. Most of the world's volcanoes lie on the edges or between these plates. The most active edges are the ones surrounding the Pacific Ocean. This is the _____.
10. How do scientists figure out when a volcanic eruption will occur? _____

11. Seismic waves travel faster through _____, solid rock and slower through _____, molten rock.
12. What would happen if Yellowstone had a cataclysmic eruption?

13. People who are most at risk for volcanoes live in Naples, _____. It lies at the foot of the most famous volcano on Earth: _____. It has erupted over _____ times in the last _____ years.
14. What do you think would happen if Vesuvius erupted today? _____

15. Stromboli, Italy: This island is one big volcano rising from the sea. It's erupting as it's done every _____ for at least _____ years.
16. The big, deadly explosions are caused by _____, rich in CO₂ that bubbles out, deeper down at much higher pressure. When CO₂ starts appearing, a _____ event is on its way.
17. Washington State, Mt. Rainier: It is a potential killer. It is part of the same range as Mount _____.

18. Mt. Rainier has more ice and snow than any other mountain in the lower 48. If ice comes into contact with _____, it rapidly turns into a torrent of mud.

19. How do scientists use water to detect a volcanic eruption? _____

20. Scientists can not only detect when but how _____ the eruption will be. Some could devastate the whole _____.

After the video:

21. Three things I learned that I did not know before watching the video:

- _____
- _____
- _____

22. The two volcanoes mentioned in this video that are located in the United States are:

- _____
- _____

23. Discuss two ways scientists use technology to detect when a volcano will erupt.

- _____
- _____

24. Lahar is the mudflow or debris that flows downhill from a volcano. Explain how Lahar can be deadly and what scientists can do to warn us about it ahead of time.

25. Why do you think people live close to volcanoes when they have the potential to be deadly?
