

Yellowstone Super-volcano Video

Name: _____

Date: _____

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Directions: As you watch the video about the Yellowstone super-volcano, answer the following questions in complete sentences. Here is the link to the video <https://www.youtube.com/watch?v=G1pa6afh8o4>

1. How many times larger is a super-volcano eruption compared to a nuclear bomb?
2. How does a super-volcano compare to a normal volcano?
3. Where is Yellowstone National Park located in the United States of America?
4. How many times more heat is released at Yellowstone compared to the rest of the Rockies Mountain area?
5. What event changed scientists' ideas and understanding about Yellowstone on August 17th, 1959?
6. How many earthquakes does Yellowstone National Park average a week?
7. What is a caldera? Describe the size of the latest Yellowstone caldera and magma chamber.
8. How many calderas have been identified in Yellowstone?
9. Describe how Yellowstone Lake has changed over time from the first road survey's done in the early 20th century.
10. What is the volcanic explosivity index and what does it run up to measure volcanic eruptions? What would a Yellowstone eruption be if Yellowstone were to erupt?

11. How many times bigger would a Yellowstone eruption be compared to the 1980's Mt. St. Helens eruption?
12. How would silica help make an explosive Yellowstone eruption?
13. What is Harmonic Tremor?
14. What is pyroclastic flow?
15. What problems could ash cause 3 days after a Yellowstone eruption?
16. What is a lahar and how would it impact our water source?
17. How is ash deadly; what is it actually? Using fossil evidence, explain how ash would affect us if we were to breathe in the ash.
18. How do volcano eruptions impact global climate (gases in the atmosphere)? How would a Yellowstone eruption impact worldwide climate?
19. What did the last super-volcano eruption cause around the world and how did it impact humans?
20. Will the Yellowstone super-volcano erupt soon? Why? Use scientific evidence to support your explanation.