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## **Global Science: Reading Response Prompts**

ICS Book, page 19: *Topography of Volcanic Regions*Answer these on your own SENBP. Do not copy the question. Just write the answers. **Use complete sentences**, *unless your teacher tells you otherwise*.

- 1. Define the following in your own words: **contour line, contour interval, topographic map,** and **relief.**
- 2. Why do you think that contour lines never cross?
- 3. When contour lines are far together, what does that mean?
- 4. Why are some contour lines darker than others?
- 5. What **two** events can change the shape of a volcano's cone very quickly?
- 6. Why would the shape of a volcano's cone change after it becomes dormant?
- 7. According to the reading, what has a very great effect on the shape of a still-forming volcano?
- 8. What happens inside **magma** as it cools?
- 9. Look at page 14 in Unit 2 of your *Captain's Log*. List the minerals that might have formed as magma from both volcanoes cooled. Explain how these might have formed.
- 10. How does **igneous** rock form?
- 11. Why is describing igneous rock by the percent of "oxides" a *fake* way to describe them?
- 12. What is the chemical formula for **silica**?
- 13. What does it mean if magma contains a **lot** of silica? You need to have at least three (3) pieces of information in this answer!
- 14. How would shaking a can of soda before opening it be like a silica-rich magma volcano?
- 15. What is a **shield cone** volcano? How does it form?
- 16. Why does this article mention toothpaste?
- 17. What is a **composite cone** volcano? How does it form?
- 18. "Gooey," oozing lava is described by what term in this article?
- 19. Why are composite cones tall and steep?
- 20. What's the difference between a **caldera** and the **original vent** of a volcano? How does a caldera form?

## Look at Figure 1 (page 20). Answer questions 21-22 by using the information in that table.

- 21. You have a sample of magma that is approximately 70% silica. *It's a new sample from an active volcano*. What would you tell the people living on the slope of that volcano?
- 22. Which type of magma listed would produce the most rapidly moving lava flow? Remember to include data from the table in your answer.
- 23. Look again at page 14 in Unit 2 of your *Captain's Log*. What type of volcano cone does each volcano listed on this page have? Explain why you gave those answers by using data from that page and information from this article.

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