

Bill Nye the Science Guy: "Earth's Crust"

Name _____ pd ____

- _____ 1. The holes in the rock were caused by a _____.
- _____ 2. The thin layer of solid rock surrounding the earth's core and mantle is called the _____.
- _____ 3. Most of the earth is made of rock in which state of matter: solid, liquid (molten), or gas?
- _____ 4. What natural phenomenon lets us know the state of matter of most of the earth?
- _____ 5. The earth's core is made mostly of which element?
- _____ 6. What is the temperature of the earth's core?
- _____ 7. What is the temperature of the earth's mantle?

8. Match the following:

- | | |
|-------------------------|-------------------|
| _____ egg shell is like | a. earth's mantle |
| _____ egg yoke is like | b. earth's crust |
| _____ egg white is like | c. earth's core |

- _____ 9. When did Mt. St. Helen's first erupt?
- _____ 10. Is Mt. St. Helen's considered and old or young volcano?
- _____ 11. Will Mt. St. Helen's erupt again?
- _____ 12. Which two common chemicals can be used to
- _____ 13. simulate a volcanic eruption?
- _____ 14. In simulated volcanic eruptions, what gas is produced?
- _____ 15. Is the whole earth generally hot or cool?
- _____ 16. Lava erupts from volcanoes. What erupts from geysers?
- _____ 17. Where does the energy for volcanoes and geysers come from?
- _____ 18. Which two continents first caused scientists to
- _____ 19. think about the theory of Plate Tectonics?
- _____ 20. What are the earth's "plates" floating on?
- _____ 21. What does "Pangea" mean?
- _____ 22. Where plates are coming together, _____ are forming.
- _____ 23. _____ are located where where plates are spreading apart.

- _____24. At what rate are the earth's plates spreading?
- _____25. Subduction occurs when one plate pushes another _____.
- _____26. _____ and _____ occur at the cracks in the top plate and when plates
- _____27. shift against one another.
- _____28. A seismograph is used to measure the strength of _____.
- _____29. How many earthquakes happen every day?
- _____30. If the earth had a liquid core, earthquakes could be felt _____.
- _____31. The diameter of the earth's core is _____.
- _____32. The study of volcanoes is called _____.
33. What is "geothermal" science?
34. Why do geysers "pulse" instead of continuously erupt?
35. What effect has the eruption of Mt. St. Helen's had on the habitat and life around the area?
36. What is Plate Tectonics?
37. What items are good to have in an "earth quake kit"?