Plate Tectonics Notes and Handouts





Born of Fire – National Geographic

1. The earth is the \_\_\_\_\_\_\_\_\_\_\_\_\_ planet from the sun.
2. One of the most active volcanoes on earth is \_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Most of the earth’s volume is in the \_\_\_\_\_\_\_\_\_\_\_\_\_.
4. The next island in the Hawaiian chain won’t break the surface for about \_\_\_\_\_\_\_\_\_\_\_\_\_ years.
5. Where do most earthquakes and volcanoes occur on the earth?
6. The earth’s surface is broken up into about \_\_\_\_\_\_\_\_\_\_\_\_\_ plates.
7. Molten rock inside the earth is called \_\_\_\_\_\_\_\_\_\_\_\_\_.
8. Where do the plates of the earth move apart? \_\_\_\_\_\_\_\_\_\_\_\_\_
9. Water reaching temperatures in excess of \_\_\_\_\_\_\_\_\_\_\_\_\_ degrees Celsius is found around black smokers.
10. The mid ocean ridge comes to the surface on the island of \_\_\_\_\_\_\_\_\_\_\_\_\_.
11. In 40 years, the ridge will spread apart about \_\_\_\_\_\_\_\_\_\_\_\_\_ feet in Iceland.
12. One of the most geologically active places on earth is \_\_\_\_\_\_\_\_\_\_\_\_\_.
13. The word “geyser” is \_\_\_\_\_\_\_\_\_\_\_\_\_ in origin.
14. The San Andreas Fault runs through \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ (in the United States).
15. Our solar system started forming about \_\_\_\_\_\_\_\_\_\_\_\_\_ billion years ago.
16. If the earth were the size of a basketball, the crust would be as thin as \_\_\_\_\_\_\_\_\_\_\_\_\_.
17. The force driving the plates is \_\_\_\_\_\_\_\_\_\_\_\_\_ in the mantle.
18. Where does the heat come from in the depths of the earth?
19. Virtually everything on planet earth has been shaped by \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_.
20. The highest mountain on earth is \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_.
21. 50 million years ago, India slammed into the \_\_\_\_\_\_\_\_\_\_\_\_\_ plate.
22. Mt. Everest is rising about \_\_\_\_\_\_\_\_\_\_\_\_\_ inches per year.
23. Around the Pacific Ocean is an area called the \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_.
24. What kind of fossils do we find on MT. Everest?
25. What are the deepest parts of the oceans called?
26. Hawaii was caused by a geologic process called a \_\_\_\_\_ \_\_\_\_\_.
27. In what direction is Hawaii being carried by the Pacific Plate
28. Aa is a type of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
29. How many people have been killed by Hawaiian volcanoes in the last century (100 years).
30. A stratovolcano is also called a \_\_\_\_\_\_\_\_\_ volcano.
31. A pyroclastic flow is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
32. What is a tsunami?
33. What can cause a tsunami other than underseas earthquakes?
34. The first national part was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.













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| titleplatetectonics | Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |
|  | |  | **Across**  **3.** The zone below the lithosphere. It is more 'plastic' than the lithosphere so it is easier to bend and move.  **6.** The most outer solid portion of the planet Earth.  **8.** The outer part of the Earth's crust. it is composed of solid rock.  **10.** Places where new seafloor is being created.  **12.** The deepest parts of the oceans.  **14.** The Theory of Continental \_\_\_\_\_\_\_\_\_\_\_\_\_.  **15.** The Earth's \_\_\_\_\_\_\_\_\_\_\_\_\_\_ field reverses from time to time.  **16.** Alfred Wegener noticed that the coast of South America seemed to fit into the coast of this continent, just like a jigsaw puzzle.  **17.** Scientist who first proposed the theory that the continents drifted. | |
| **Down**  **1.** The primary force that causes the seafloor to spread and continents to drift.  **2.** Plate \_\_\_\_\_\_\_\_\_\_\_\_\_.  **4.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_ zones. Places where the seafloor is forced under continental plates.  **5.** Section of the Earth below the crust.  **7.** Paleontologists noticed that these were the same on different continents even though the continents were separated by oceans.  **9.** Source of heat in the mantle.  **11.** Seafloor \_\_\_\_\_\_\_\_\_\_\_\_\_\_.  **13.** Scientist who first proposed that thermal convection in the mantle causes continental drift. | | | | continentaldrift |