

Name _____
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4. What do we call the currents that drive plate motion inside the Earth?
What layer of Earth do these currents occur in?

Fill in the Table Below:

	Description	Features Formed	Real-Life Example
Divergent Boundary			
Transform Boundary			
Convergent (ocean to continent)			
Convergent (continent to continent)			

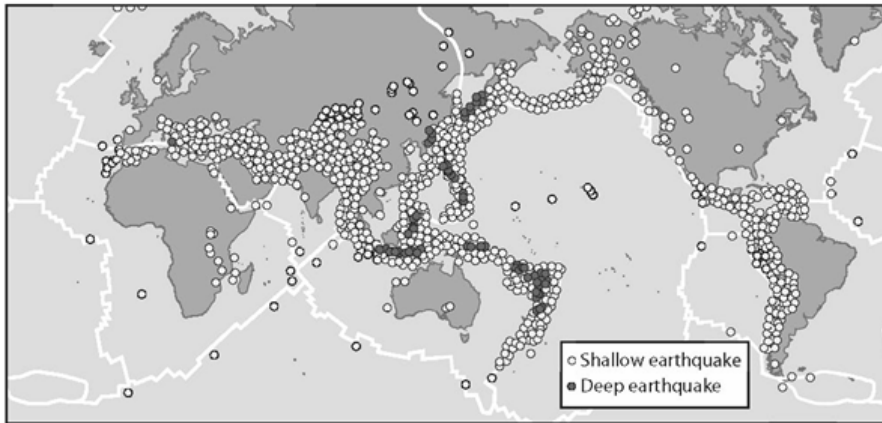
5. Which waves travel the deepest into the center of Earth?

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6. Looking at the figure that shows world-wide earthquake distribution, the white lines represent plate boundaries. What is a conclusion you can make about the relationship of earthquakes and plate boundaries?



7. Define earthquake, Define Volcano

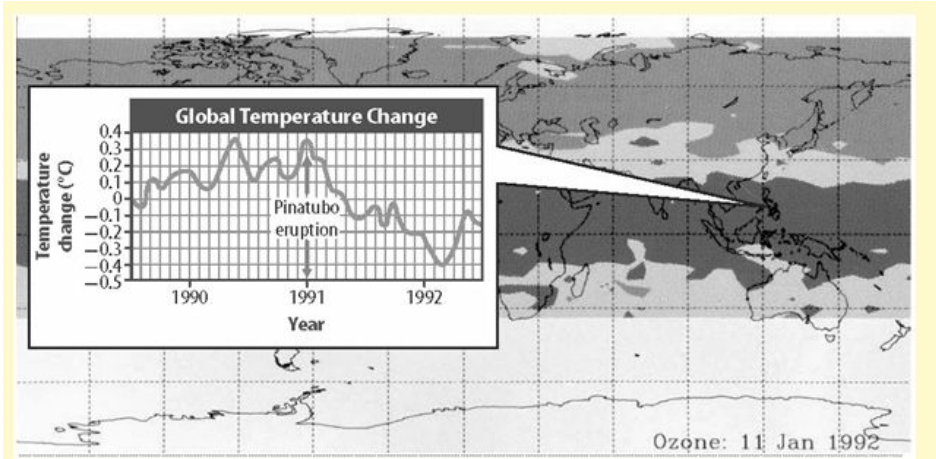
8. What is the difference between the focus and the epicenter?

9. What are the three locations where volcanoes can form?

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10. What happened to the global temperature after the Pinatubo eruption?

- a. It stayed the same
- b. It never changed
- c. It decreased
- d. It increased

11.. A normal fault occurs where forces pull two blocks of rock apart. At which kind of plate boundary does this occur? Why?

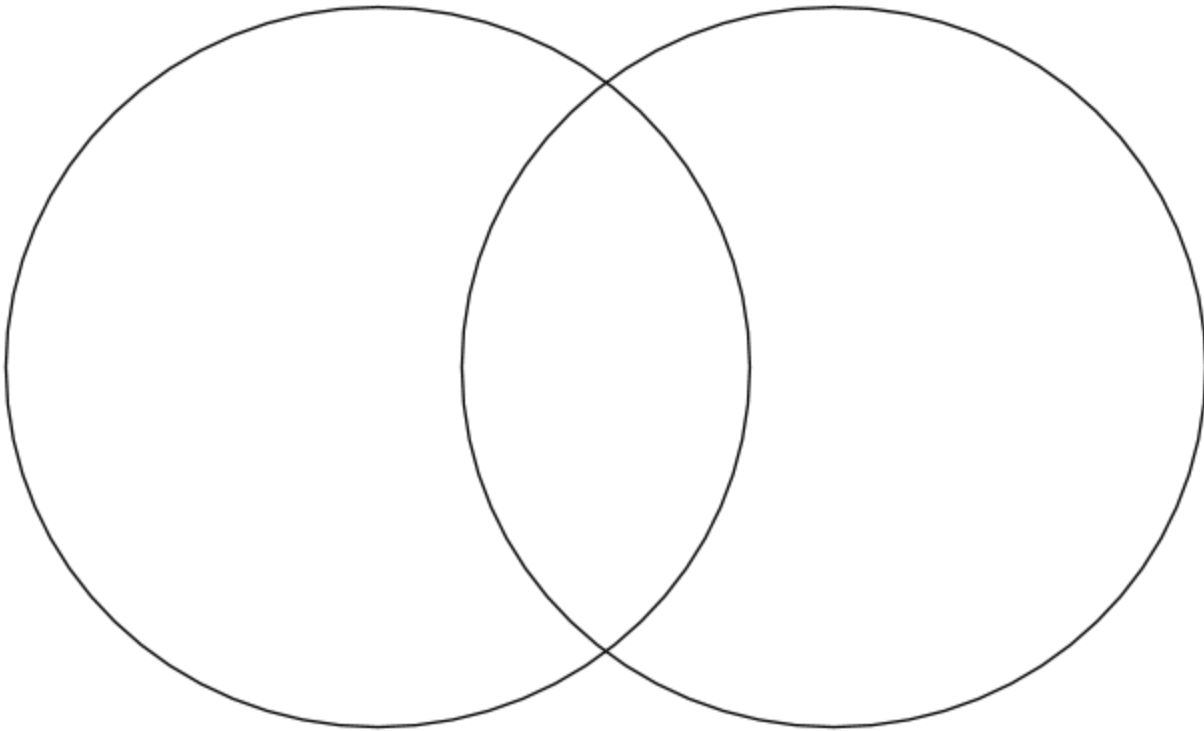
12. What is the difference between the Modified Mercalli Scale and the Richter scale?

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13. Compare/Contrast Absolute Age Dating and Relative Age Dating by making a Venn Diagram

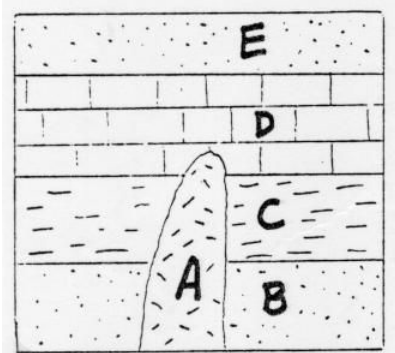


14. What are index fossils?

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15 List the Layers from Oldest to Youngest

16. With _____ dating, a rock's exact age can be determined, whereas with _____ dating, a rock's age is compared to the ages of other rocks.

- | | |
|--------------------------|-----------------------------|
| a. absolute,
relative | b. relative, absolute |
| c. true, absolute | d. relative,
approximate |

17. What characteristic of radioactive decay makes it useful for determining the absolute age of samples?

18. Is the principle of superposition used for absolute age dating or relative age dating?

Define each term.

principle of superposition

radiometric dating

Unconformities

half-life

Uniformitarianism

radioactive decay

relative dating

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19. What features formed in North America during the Mesozoic Era?

20. What era did dinosaurs evolve in?

21. Humans first appeared during what era?

22. The Cenozoic Era is known as the age of the what?

23.

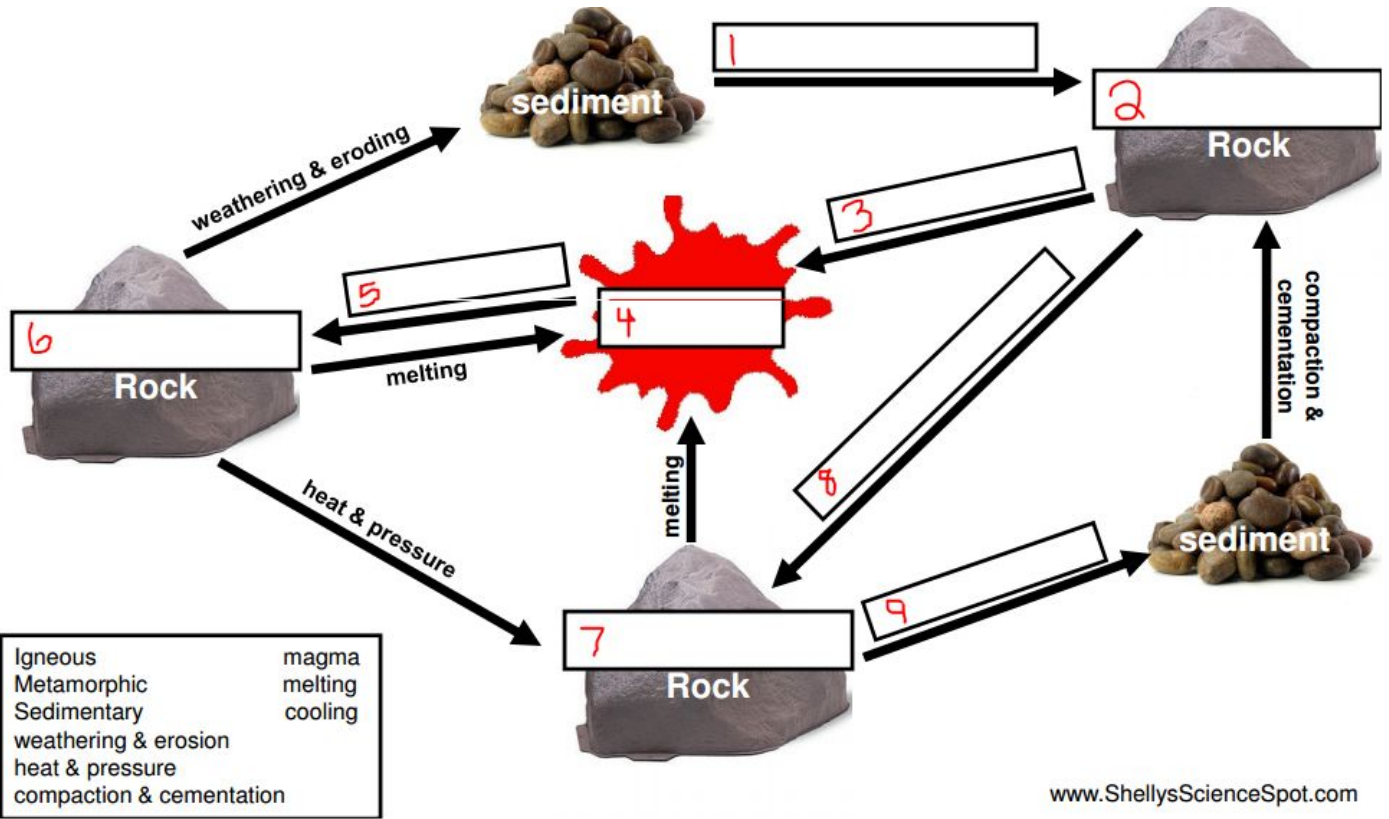
Type of Rock	Definition	Processes that form it	Example
Sedimentary			
Igneous			
Metamorphic			

24. Fill in the blanks on the rock cycle diagram:

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25. Rocks are classified based on _____.