

How Is The Earth Changing?

Review Game

Rules:

- Participants buzz in after the majority of the question is read to answer
 - Each correct response results in 1 point

Rules Continued:

- Incorrect answer: Same question goes to any other person remaining that did not buzz in before - awarded 1 point
 - Next question will go to another set of lab table representatives
- Outside talking amongst lab tables during a round results in deduction of point

Rules Continued:

- First response - only response (cannot change answer)

Question 1

- What has moved land and continents over millions of years, and continues to do so?

Question 2

- What type of plate material is more dense?

Question 3

- What happens to sinking rock at convergent boundaries?

Question 4

- What is being made at divergent boundaries?

Question 5

- What is the process that moves tectonic plates? Be specific to the type of material found in this process.

Question 6

- What layer of the Earth do tectonic plates exist?

Question 7

- What 2 continents share the most common similarities?

Question 8

- What is the evidence to tell if a plate boundary is a transform boundary?

Question 9

- What is a collection of magma that rises as a plume through the mantle called?
- Extra point - does this type of structure ever move?

Question 10

- What 2 pieces of data can you determine to map out where plate boundaries are located?

Question 11

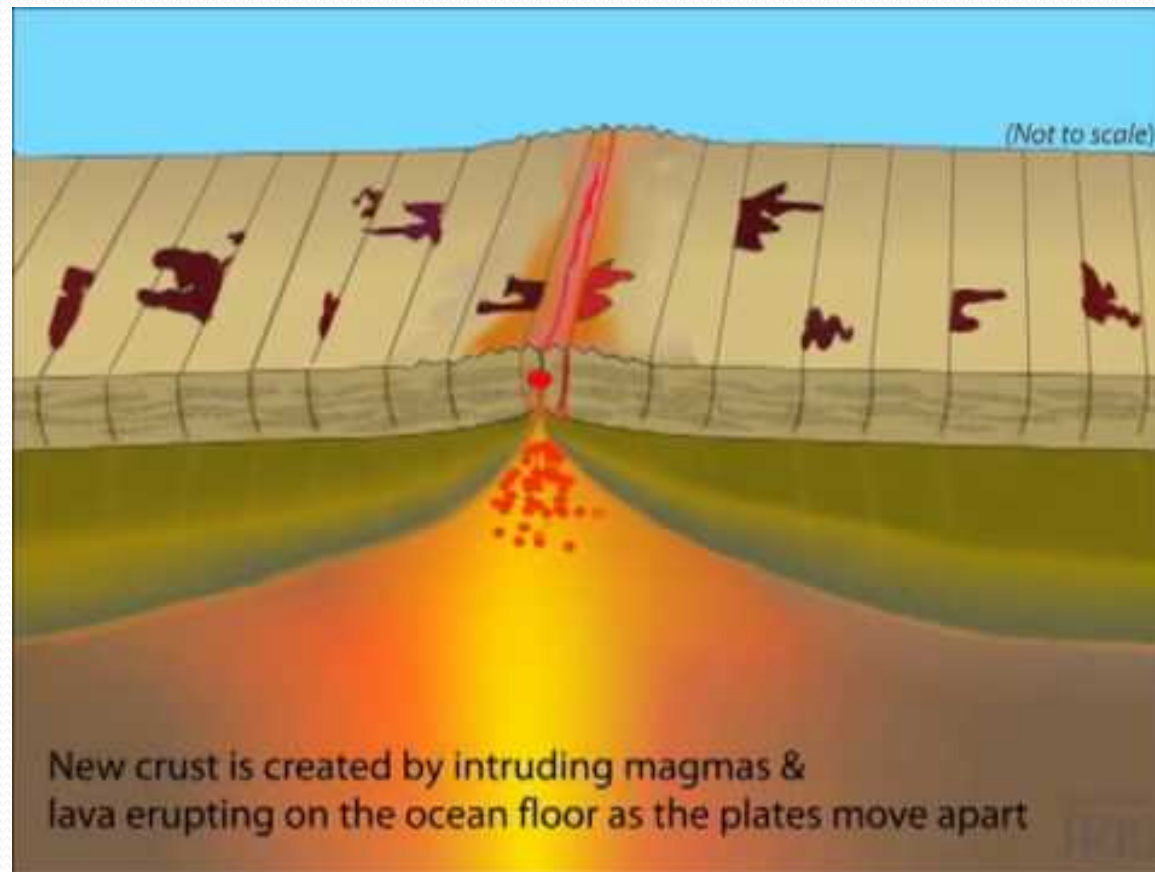
- What are the marks in rocks called when glaciers cut into rock as they recede?

Question 12

- Which of the following is/are evidence(s) that Wegner used to theorize that the continents were once joined?
 - A. The ice in the arctic froze existing organisms in the area
 - B. Similar plant and animal fossils were located on separate continents
 - C. Receding glaciers left marks in rocks found in temperate areas
 - D. Different rock sequences were found on different continents

Question 13

- What type of plate boundary is this?



Question 14

- Which of the following processes is the reason that the Atlantic Ocean will expand one day?
 - A. Subduction
 - B. Rock crumpling
 - C. Sea floor spreading
 - D. Uplift

Question 15

- What area of the planet contains the highest amount of active volcanoes?

Question 16

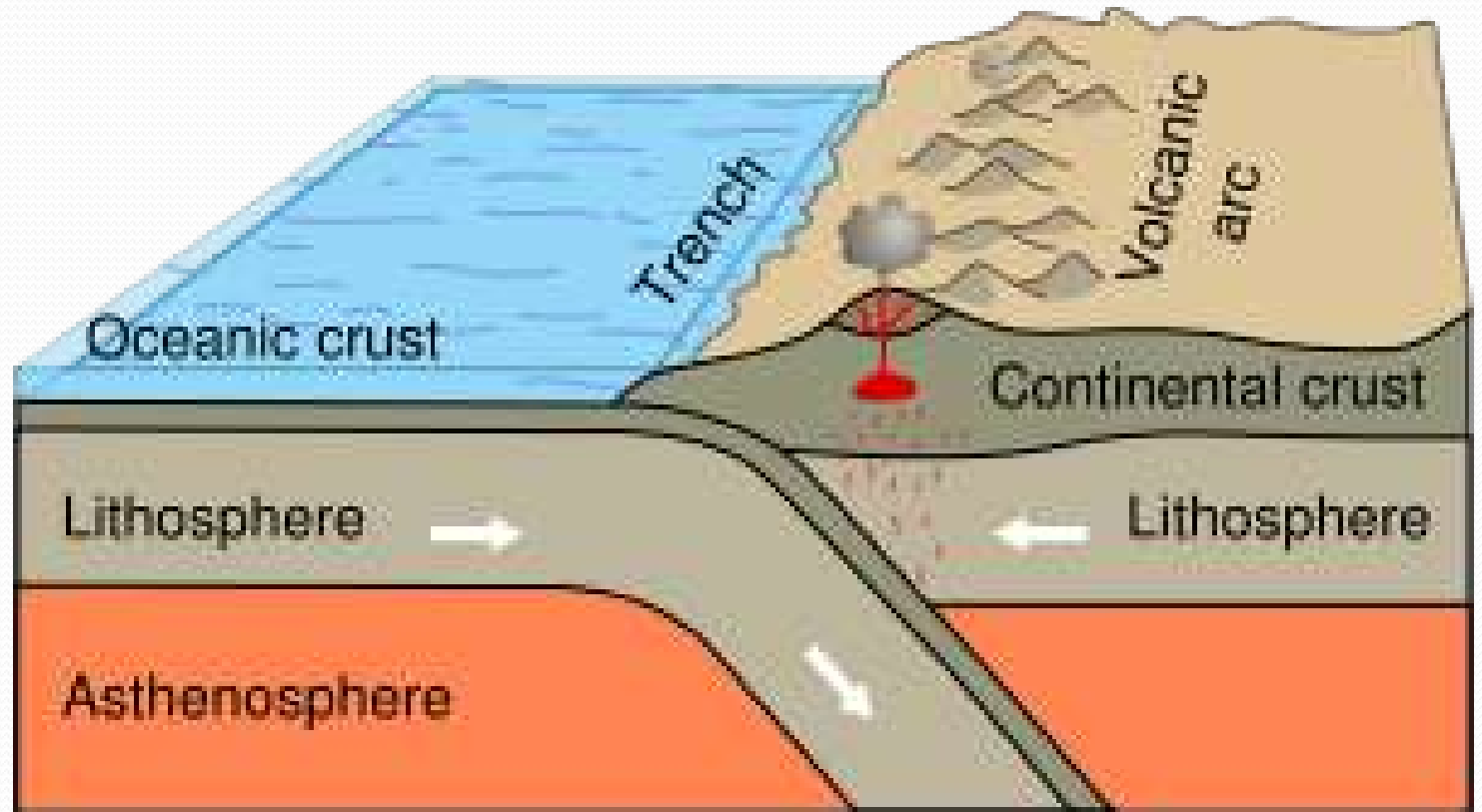
- When a plate sinks under another, what is the area in which the plate begins to sink called?

Question 17

- Fossils found in Antarctica have indicated that
 - A. These organisms evolved to survive such hard conditions
 - B. These organisms were able to migrate to such an area over a long period of time
 - C. These organisms could not have been able to survive there unless the climate was different

Question 18

- What type of plate boundary is this?
-extra point - be specific



Question 19

- Which of the following geological structures is evidence of a convergent boundary?
 - A. Mountain ranges
 - B. Volcanoes
 - C. Sea floor spreading
 - D. Earthquakes

Question 20

- At a divergent boundary, what is the age of rock at the plate boundary vs. the coastline?

Question 21

- What type of rock would you typically find at plate boundaries?

Question 22

- If 2 continental plates collided, which one would sink and why?

Question 23

- What mountain range was formed when the landmass of Italy crashed into the continent of Europe?

Question 24

- What mountain range was formed when the subcontinent of India crashed into the Eurasian continent?

Question 25

- What is the fault line responsible for the earthquakes in the state of California?

Question 26

- What plate does the island of Hawaii lie on?

Question 27

- What type of plate boundary is found at the Ring of Fire?

Question 28

- What type of plate boundary is found at the Mid-Atlantic Ridge?

Question 29

- What 2 factors do you need to have a volcano erupt?

Extra point – what is the source that ‘fuels’ a volcano to erupt

Question 30

- What type of plate boundary is associated with volcanic activity?

Question 31

- What is the most basic piece of evidence from Wegner's theory that the continents were joined together at one time?

Question 32

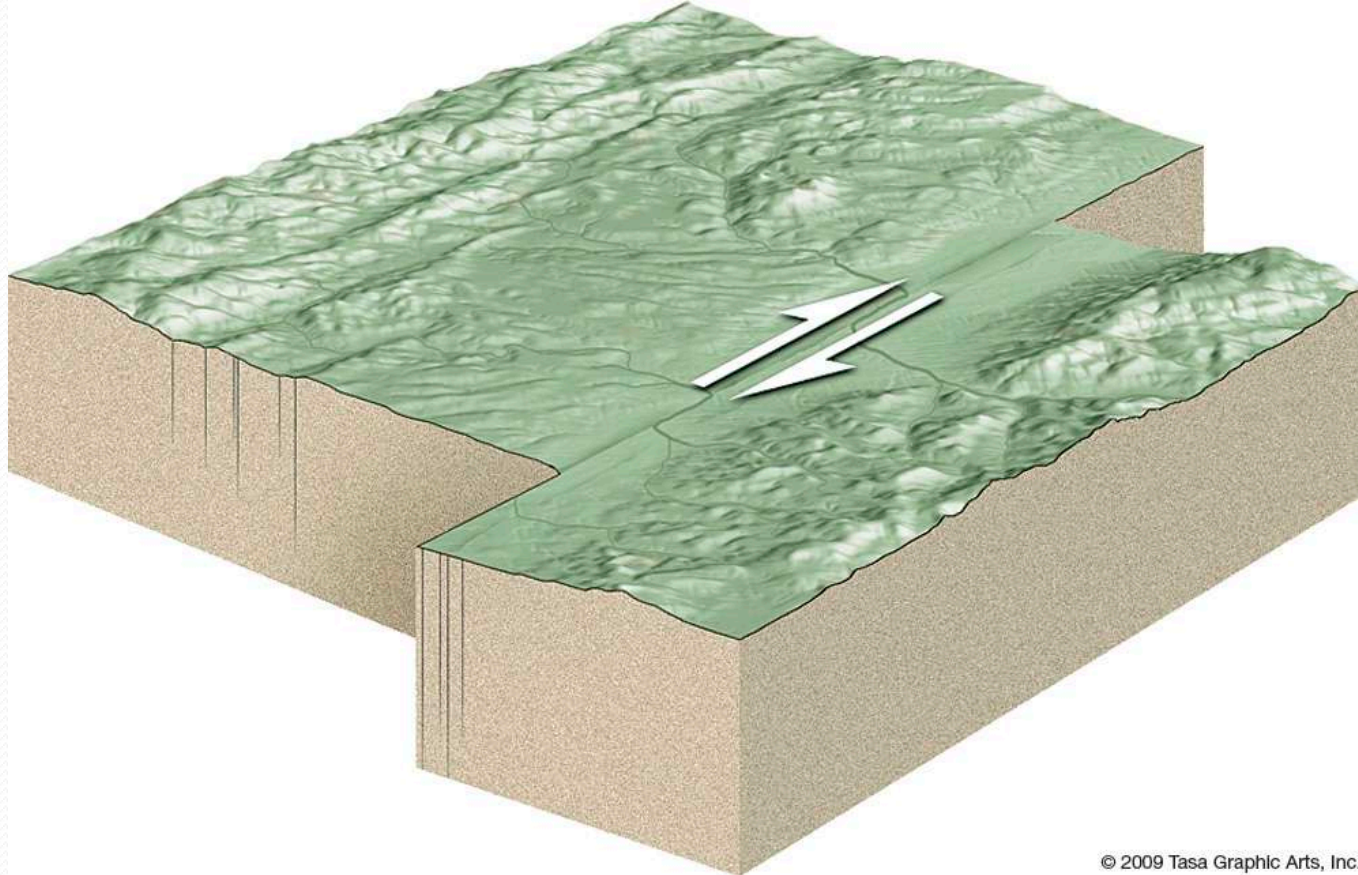
- What is formed as a result of a convergent boundary if there is no source of magma or hotspot present?

Question 33

- How can you prove what direction certain plates are moving?

Question 34

- What type of plate boundary is this?



Question 35

- What happens to magma as it cools in convection?

Question 36

- What happens to hot magma in convection?

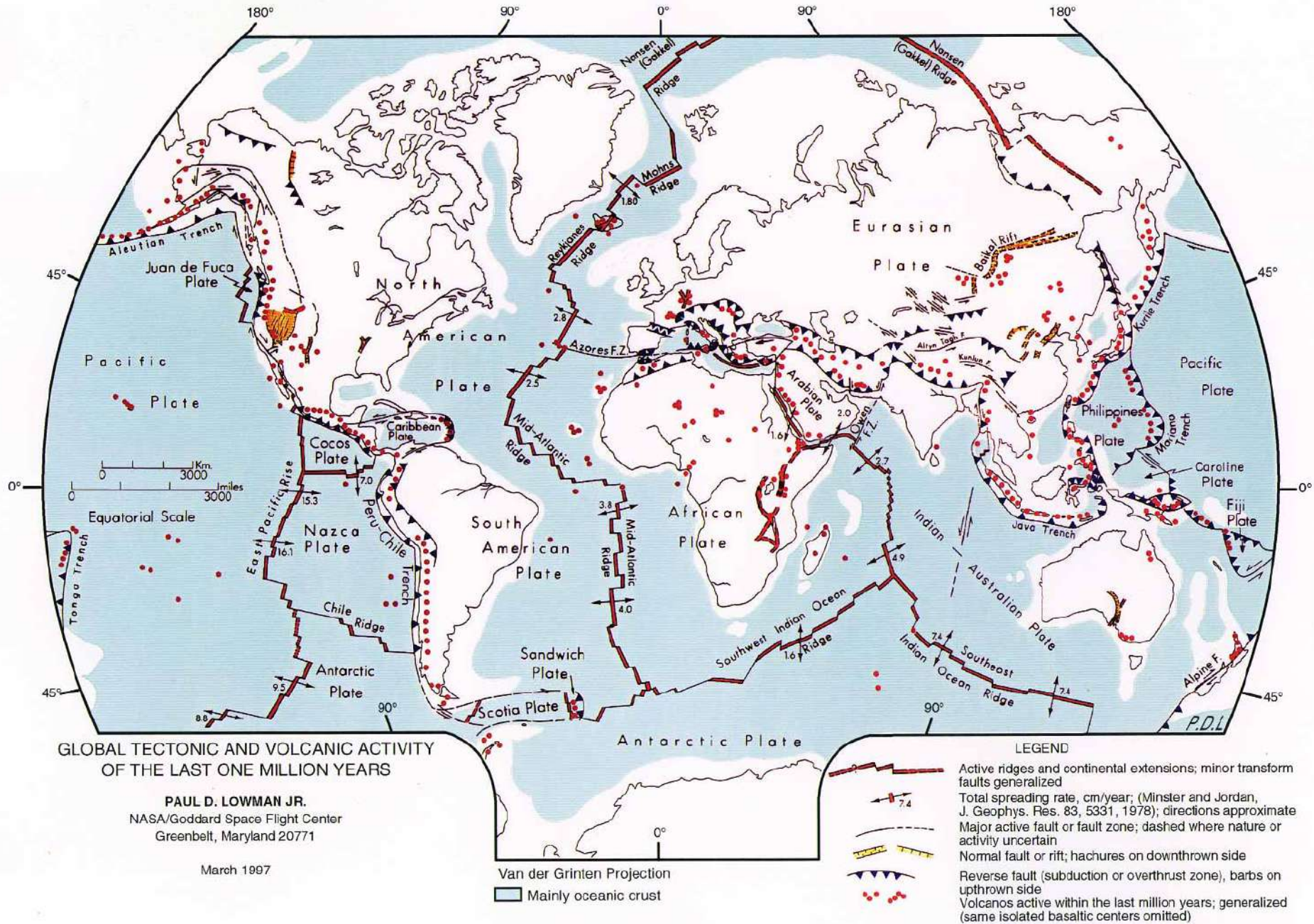
Question 37

- What is the upper layer of the mantle called?

Question 38

- According to the diagram on the next slide, what 2 plates in how they move will cause the Red Sea to expand?

Map



Question 39

- Other than volcanoes or mountains, what physical feature is also associated with convergent boundaries?

Question 40

- What part of the United States mainland contains a hotspot that may erupt as a super volcano?

Bonus Question

- What part of Oahu in the Hawaiian island chain has the oldest, inactive volcanoes?

Items To Study For Test

- DQB – scientific principles and definitions
- Note sheets / diagrams
- IQWST Activities
- Application of Principles
- **Be prepared to make scientific claims of how storms are formed / are they similar or different around the world**