Name: _____ Date: _____ Period: _____

Changing Earth Exam Review

1. What is the outermost layer of the Earth called? _____
2. What is the layer at the center of the Earth called? _____
3. Which layer is liquid, allowing the tectonic plates to "flow" on top of it? _____
4. Scientist Alfred Wegener thought that all of the continents were once joined as one *super*continent called _____.
5. Explain how the tectonic plates are able to move – be specific & use correct vocabulary:

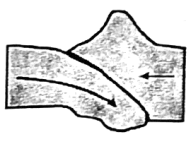
_____

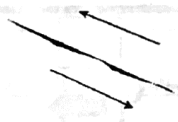
_____

6. Which of the following statements about magnetic reversal is **NOT** true?
   a. Magnetic reversals are recorded in rocks on the ocean floor.
   b. The north & south magnetic poles have changed many times in Earth's history.
   c. Magnetic mineral grains in rock on the ocean floor all point in the same direction.
7. Which type of crust is denser? - Oceanic or continental? _____
8. One tectonic plate slides beneath another at a **trench** in a _____ zone.
9. The feature occurring at a **divergent boundary** with **seafloor spreading** is _____
10. The tallest mountains in the world, the Himalayas, are located at a **convergent boundary** where _____ and _____ collides.

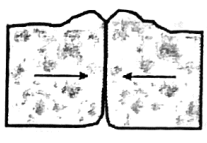
Match each of the plate boundaries in the following pictures with the questions below.

Note: Answers will be used more than once.

a. 

b. 

c. 

d. 

11. convergent boundaries? _____ and _____
12. divergent boundary? _____
13. transform boundary? _____
14. boundary with a fault zone: _____
15. boundary where folded mountains form: _____
16. boundary with a subduction zone: _____
17. Boundary with the formation of an island arc _____
18. boundary with the formation of a rift valley._____
19. boundary with seafloor spreading: _____
20. boundary with shearing, tension & earthquakes: _____
21. boundary with crust melting into magma in the mantle: _____
22. boundary with a trench: _____
23. boundary which will most likely lead volcano formation: _____
24. boundary at which new crust is being formed: _____

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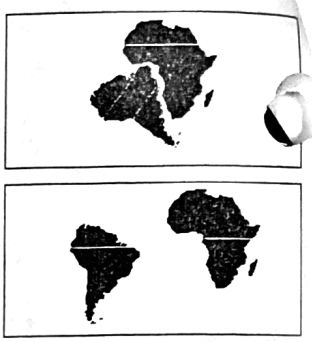


What is Continental Drift Theory? Who came up with the theory?

What evidence is there to support the theory?

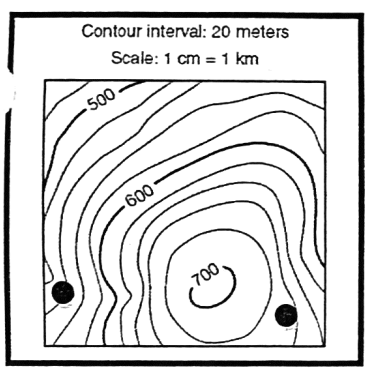
What is the FORCE that powers the movement of the plates?

What is the theory of sea floor spreading? Who came up with the theory?

Topographic Maps

What is a contour line?_____

_____



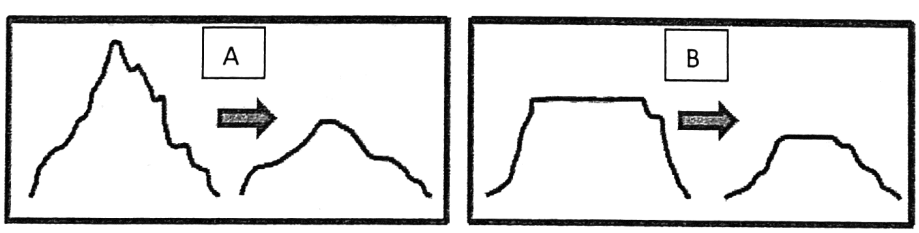
What is the contour interval (not the same on every map)?_____

_____

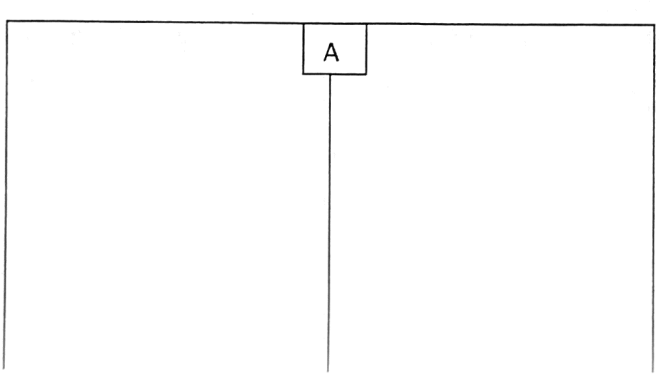
How do you tell what type of elevations changes the land feature has? Steep Slope Vs. Gradual Slope _____

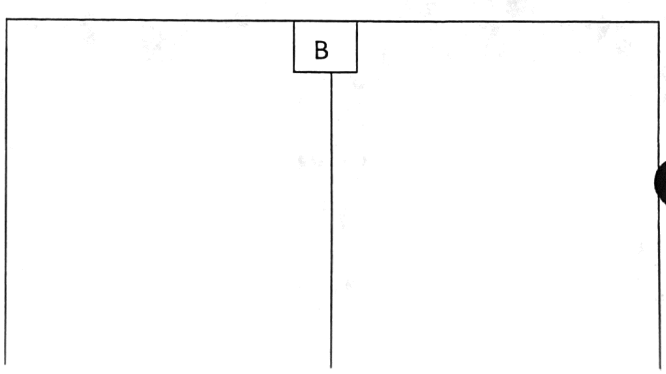
_____

What is the change in elevation between the two locations? _____



Using a separate sheet of paper, sketch a **before** and **after** topographic map that shows the effects of weathering and erosion for images A, and B.





How would a topographic map change if tectonic activity were occurring? _____

How would a topographic map change if weathering and erosion were occurring? _____

_____

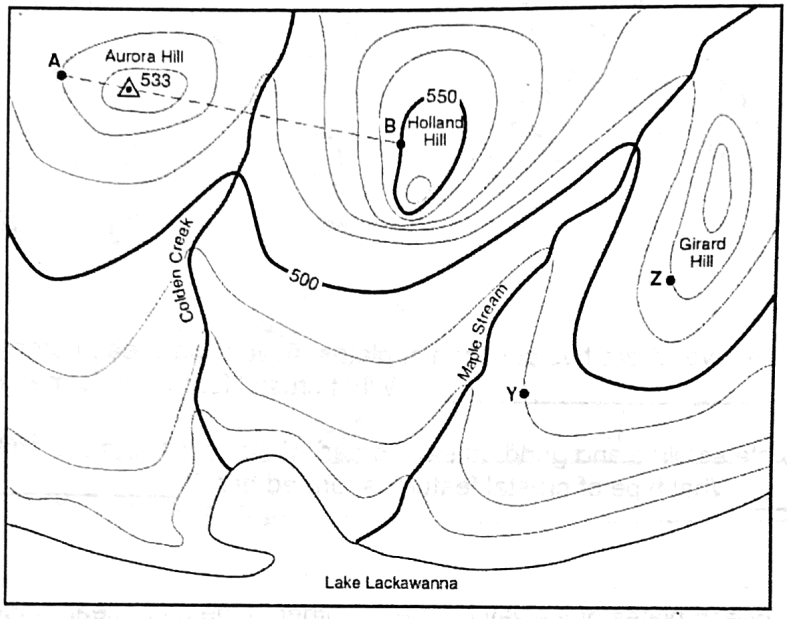
What information is obtained using a satellite image? _____

_____

What information is obtained using a topo map? When would it be best to use a topo Map?

_____

_____



Contour Interval: 10 ft

What does the triangle 533 mean on Aurora Hill?

_____

Describe how the contour lines would change if Colden Creek erodes more land over thousands of years.

_____

_____

_____

Use a different colored Pen/pencil to show how these contour lines will change!!!

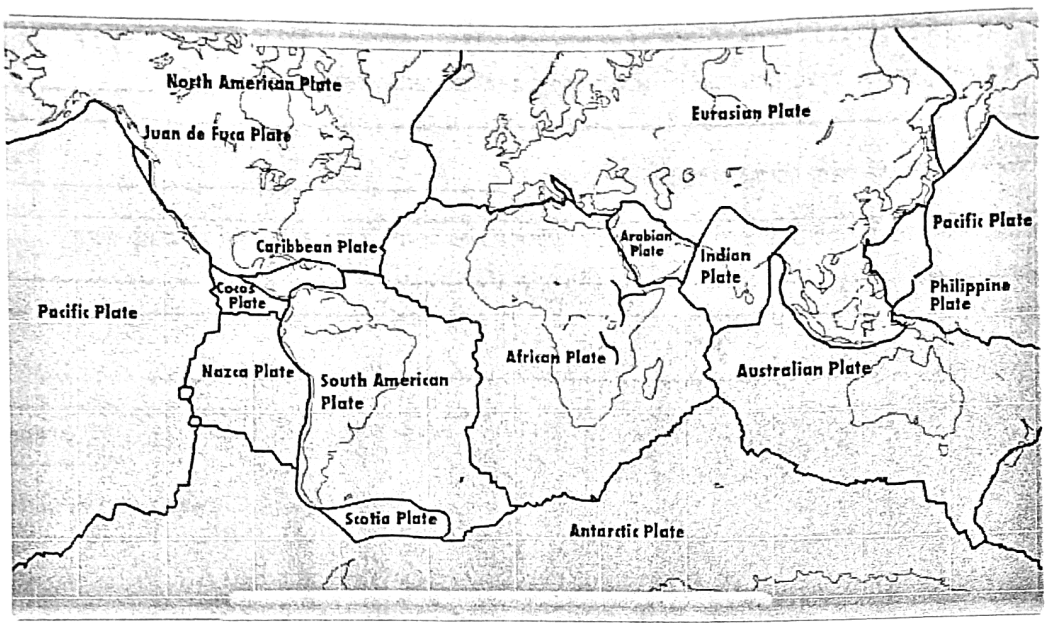
Write 3 test style questions with answers based on the topographic map above. You may add additional points on the map if needed.

1.

2.

3.

Over-→



Label with a **#1** on the map above where two continental plates move toward each other. What is the name of this type of boundary? _____ What crustal feature is formed here? _____

Label with a **#2** where two plates slide and grind on each other. What is the name of this type of boundary? _____ What type of crustal feature is formed here? _____

Label with a **#3** where two ocean plates pull away from each other in the mid ocean ridge. What is this boundary called? _____ What Crustal feature forms here? _____

Label with a **#4** where two ocean plates move toward each other. What is the name of this type of boundary? _____ What crustal feature is formed here? _____

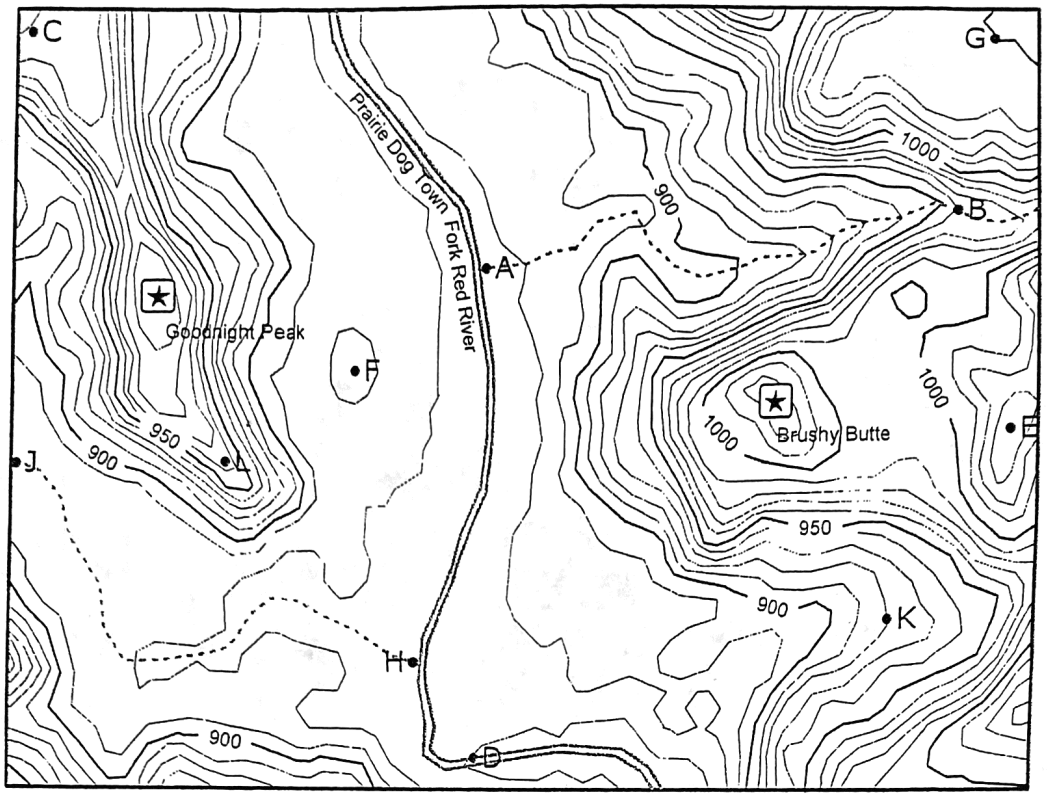
Label with a **#5** where an ocean plate collides with a continental plate. What is this boundary called? _____ What crustal feature forms here? _____

Look on mrsspradling.weebly.com
Classnotes / quizzes
Geology.

Review Satellite images of erosion

- Bay areas
- Beaches
- Sand dunes etc.

Use the following topographic map from Palo Duro Canyon State Park in west Texas to answer questions.



What is the elevation of Goodnight Peak? _____

What is the elevation of Brushy Butte? _____

What is the elevation of point A? _____

What is the elevation of point B? _____

If you walked along the creek from point A to point B, what would be the total change in elevation? _____ In what direction would you be walking? _____

What is the elevation of point C? _____

What is the elevation of point D? _____

What is the elevation of point E? _____

What is the elevation of point F? _____

If you walked along the creek from point H to point J, what would be the total change in elevation? _____ In what direction would you be walking? _____

In what direction is the river at the center of the map flowing? _____

Is point L in a valley or a ridge? _____