

What does this map show ?



Brain  
POP™

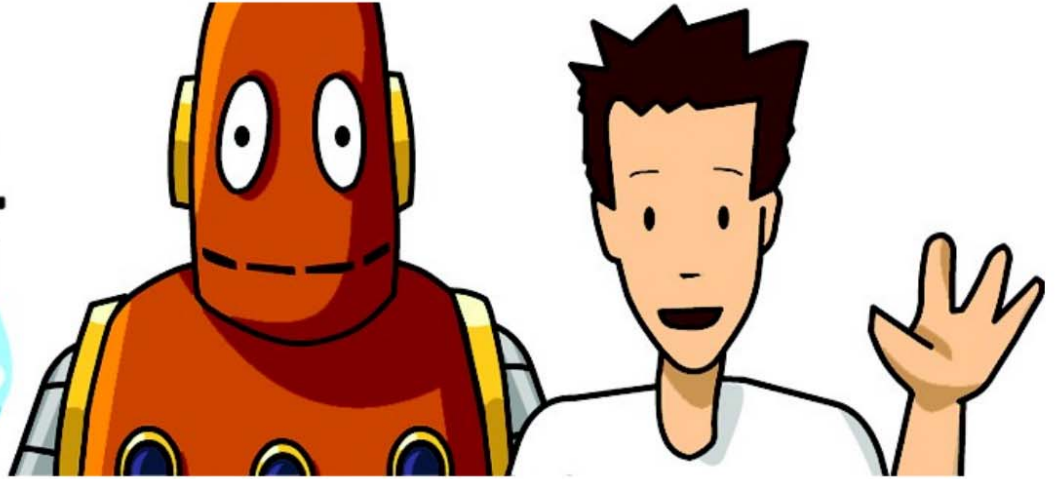
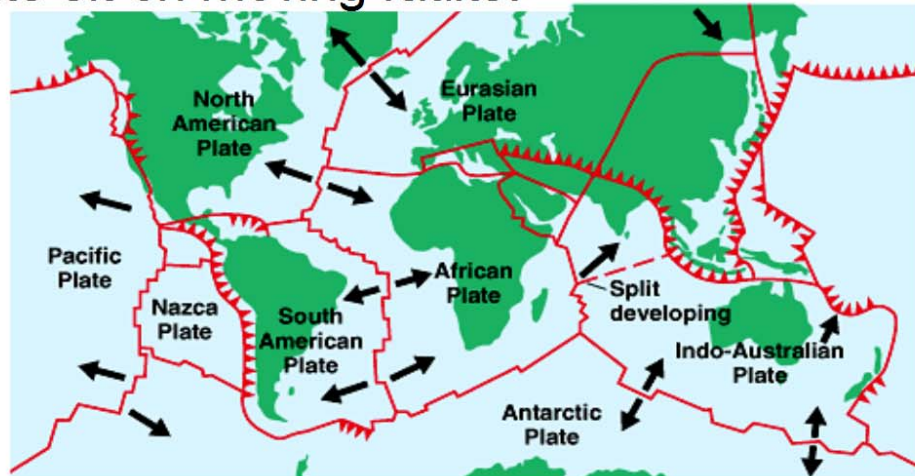


Plate Tectonics: After watching Tim and Moby, answer these questions

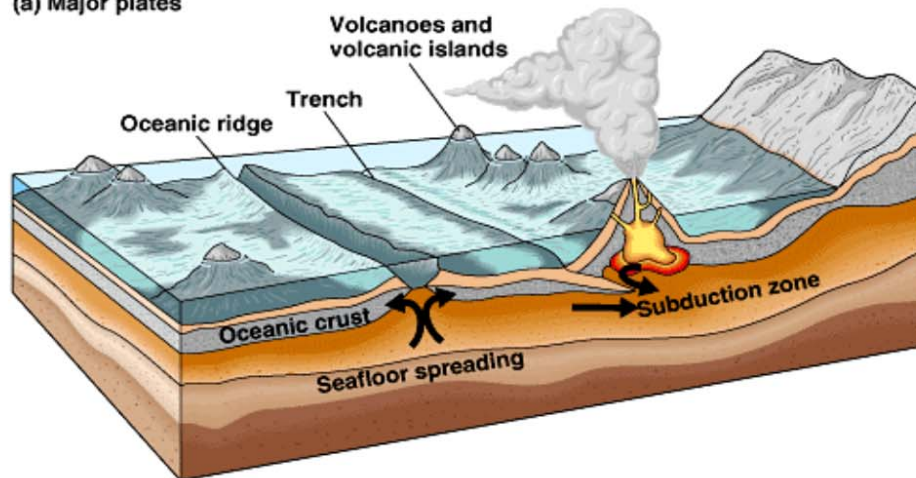
1. What is continental drift?
2. How much does each continent shift a year?
3. What is caused by this shift?

Our continents sit on moving faults!

Results....



(a) Major plates



(b) Events at plate boundaries

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# Mountains



Volcanos



Earthquakes

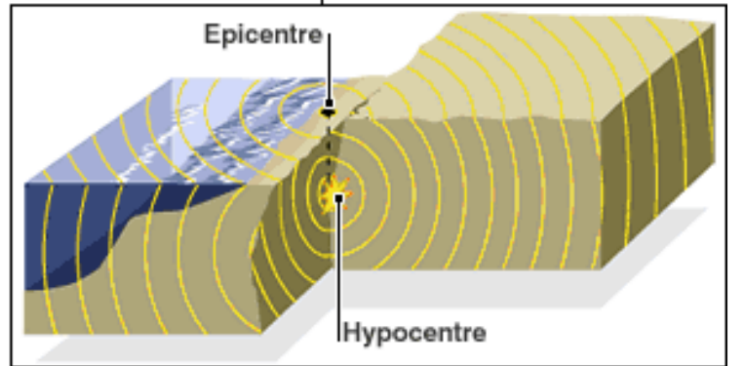
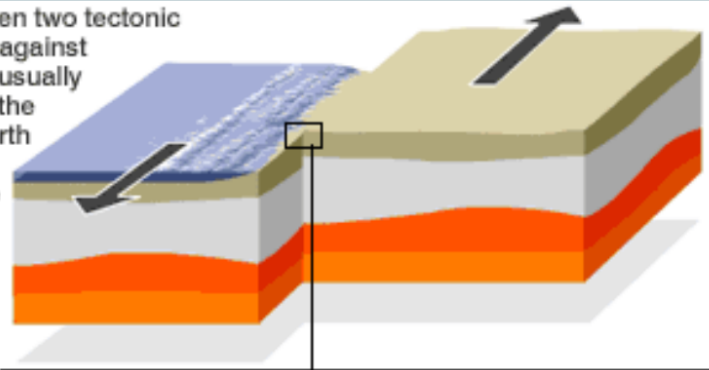
Haiti





## EARTHQUAKES

Earthquakes occur when two tectonic plates move suddenly against each other. The rocks usually break underground at the hypocentre and the earth shakes. Waves spread from the epicentre, the point on the surface above the hypocentre. If a quake occurs under the sea it can cause a tsunami.



Haiti





Tsunami



# Tsunami - large wave caused by shifting of plates in ocean

## Indian Ocean 2004 Tsunami





What causes a Tsunami?

How is this related to plate tectonics?



[http://www.pep.bc.ca/tsunamis/causes\\_2.htm](http://www.pep.bc.ca/tsunamis/causes_2.htm)



Why is it important for geographers to study plate tectonics?



To predict what might occur in the future... for our safety!

video - Tsunami Threat

© Michael Brown Today.com

Now that we know some of the things geographers study....

What else have geographers discovered about our physical earth?



They have discovered that \_\_\_\_\_ percent of the earth is water.

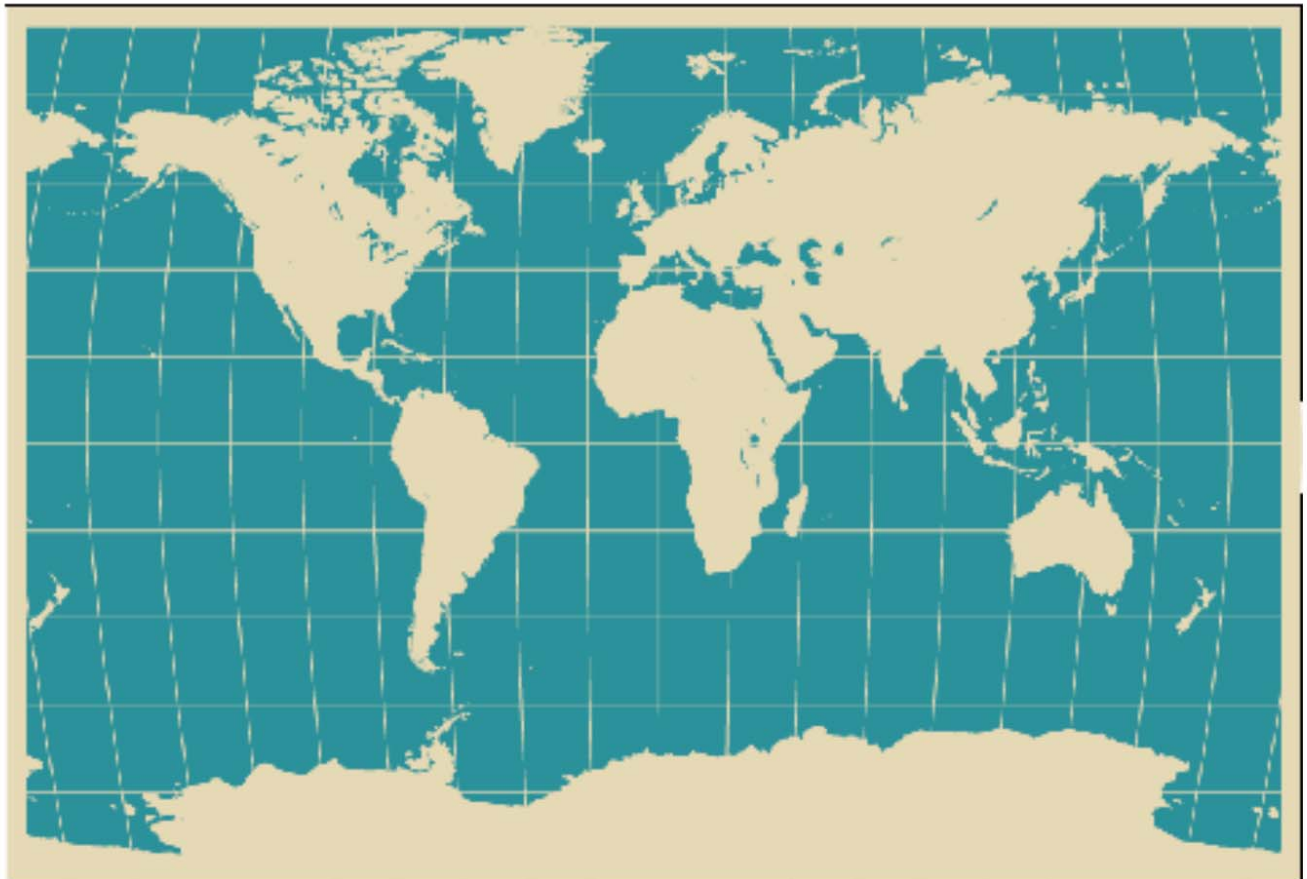
- |            |             |                 |              |
|------------|-------------|-----------------|--------------|
| A. 50%     | B. 25%      | C. 70%          | D. 80%       |
| (stand up) | (face back) | (hands on head) | (raise hand) |

They have also discovered that most of the water is...

- |               |                |
|---------------|----------------|
| A. Salt Water | B. Fresh Water |
| (stand up)    | (stay seated)  |



Most of this water is found in the four major oceans which are....?



Geographers also have learned much about Land Forms...



Lets Review

In Class Assignment:

Think about the following landforms:

- Mountain                      - Valley                      - Ocean                      -River

Answer the follow questions.

- 1.How are each of these affected by plate tectonics?
2. How do these land forms affect humans?
3. Why do we study these in geography class?



1. How are each of these affected by plate tectonics?
2. How do these land forms affect humans?
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