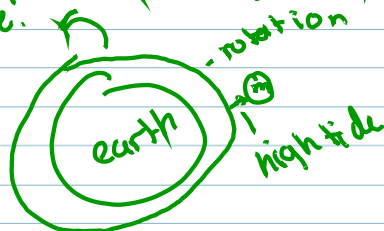


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Oceans

- four oceans -
 - Indian
 - Atlantic
 - Pacific
 - Arctic
- Oceans are always moving
- Energy is what moves in the ocean
- The wind causes waves in the ocean.
- Tides - rising and falling of water.
- Caused by the gravitational pull of sun and moon.
- Also because of the Earth's rotation.
- Currents - belts of water
- cold under-water current - when cold water covers warm water.
- high tide happens to the part of the Earth closest to the moon.
- The moon's pull is twice as strong as the sun's because it is close.



- warm surface currents form on the equator and cold surface currents on Arctic.
- The Gulf is the warmest current around America!
- warm currents make rainy weather
- when water gets warmer fish die or move away and birds that feed on them starve.
- When earth first formed volcanoes sent vapor in air
- when vapor condensed over the years rain water fell.

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Oceans

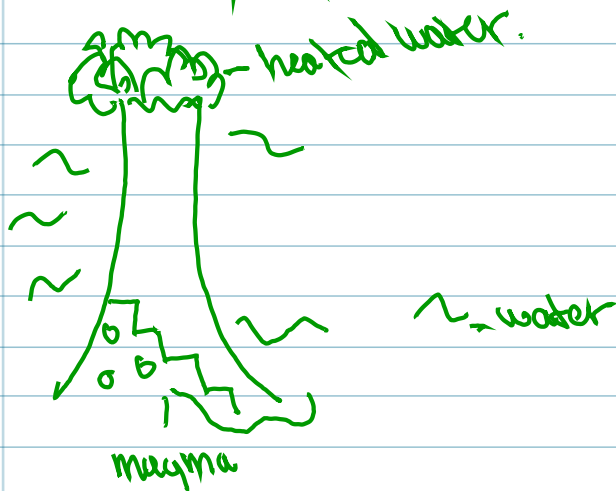
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not to scale

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- Magma melts the rock in the land to rise and forms new ocean floors. (seafloor spreading).
- Iceland-volcanoes that have risen from the seafloor
- 1971, Alvin (submarine) went to the ocean floor.
- Black smokers



- The ocean floor grows an inch a year.
- When the ocean floor spreads, plates somewhere else collide.
- This could cause earthquakes and water earthquakes.

- Christy