Chapter 2a.notebook



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1. Plate Tectonics

- Pieces of the land move over the Earth's surface
- Changes position of the continents
- Influenced where ocean basins are located http://www.youtube.com/watch?v=ryrXAGY1dmE4noredirect=1 http://www.youtube.com/watch?v=TzzGPFVx3zM



2. Volcanic Action

- Underwater volcanoes are generally found at the edges of tectonic plates
- When volcanoes erupt underwater, new oceanic crust (ocean floor) is formed by the hot molten rock slowly cooling and solidifying
- Volcanoes have built ocean floor along mid-ocean ridges in areas where plates separate
- Volcances have helped build continental divides in areas where plates have collided and mountain building occurs





- The process by which the surface of the earth is worn away by the action of water, glaciers, winds, waves, etc.
- Erosion has further developed Continental drainage systems as material is removed and deposited into the ocean basins.



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- * Federal Fisheries
- * Ocean Science Centre
- * Centre for Cold Ocean Research C-CORE @ Memorial University



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1. Sonar:

 Sound waves are sent down from a ship
 Can be used to map underwater mountains, Valleys, and Canyons on the ocean floor.

http://www.youtube.com/watch?v=-fAAxEIFeLU







- * Orbit the earth, use radar, infrared light, or other technologies to measure features on the ocean floor.
- surveys large areas of oceans in a short period of time.
 gathers information from buoys about water and air
- temperature for weather stations.



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3. Underwater photography/videography:

- Cameras take high resolution (Clear) underwater photos and videos.
- * Can go up to 6000m beneath the surface.





4. Submersibles (submarines):

 Small but extremely strong vehicles (because of the high pressure underwater) that are Capable of travelling to great depths.

2 Types:

- 1. Remotely-operated Vehicles (ROV):
 - People Control it from a ship
- Advantage: Can stay down for long periods of time and go to further depths than manned submersibles
- 2. Manned Submersibles: Carry people inside
- Advantage: People Can make their own observations of the deep sea.



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5. Diving:

New technology allows people to dive deeper than ever before, but they still cannot go as deep as other technologies.

Advantage: People Can make their own observations.



Although all of these technologies help our understanding, no single data Collection method provides a Complete picture of the ocean floor.

undersea adventure aCtivity

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- * There are more than 20 major Currents in the world
- * Largest: Antartic Circumpolar Current





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Weathered: the breakdown of rocks into smaller particles.

Erosion: the moving of sediment (weathered particles).

Deposition: when eroded material is dropped or left behind.

Erosion and deposition have a huge impact on our shorelines.

http://www.youtube.com/watch?v=R48ZYr-\$7V0



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If the shoreline has a more gradual slope, the rock fragments will build up, creating a sandy beach.

How erosion and deposition affect... Beaches Sand and sediment are always being removed (eroded) and deposited by waves. Sediments are deposited by size. Shoals & Sand bars Deposition of sediments resulting in localized shallowing of the water. Sea Caves Headlands are eroded all the way through the headland. Sea arches Occurs when a sea cave is eroded all the way through the headland. Sea stacks Occurs when the top of a sea arch becomes weak and caves in (erosion).



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Sea Walls: Protective structures of stone or Concrete.

Extend from shore into water to prevent beach from washing away.

Vegetation:

Plants along the shoreline Can keep erosion from affecting shoreline.

In image, roots of the trees block erosion forces from damaging Coast.



Use your notes and text book to answer these questions:

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Waves.avi