

Ocean Study Guide

Name _____

Test Date _____

71%-the amount of water that covers the Earth

Salinity

- the saltiness of the water
- salinity changes due to run off and evaporation
- ocean water is a complex mixture of gases (air) and dissolved solids (salt)

Water Movements

-Waves

- any disturbance in the surface of the water
- causes of wave include people, boats, wind, etc.
- does NOT actually move the water

Draw a wave below, label the crest and trough

-Currents

- caused by wind patterns and differences in water densities
- currents actually move water
- most warm water currents begin at the Equator
- affect the mixing of the ocean water
- affect navigational routes
- California Current-cold water current off the West U.S. Coast
- Gulf Stream Current-warm water current off the East U.S. Coast

-Tides

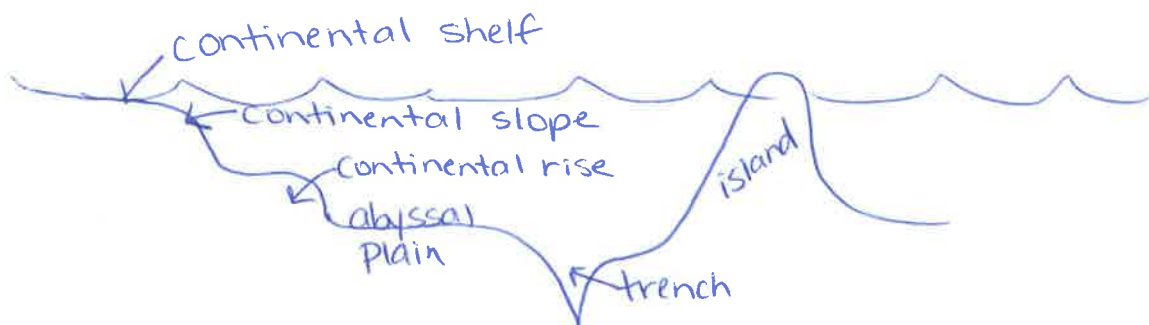
- caused by gravitational pull of the moon

SONAR

- Sound Navigational Ranging
- uses sound waves to measure ocean depths
- measured in feet or meters

Parts of the Ocean Floor

- Trench
 - deep valley underwater
 - only special plants and animals can live there with bioluminescence
- Abyssal Plain
 - covered with mud, sand, remains of dead, and rocks
- Continental Shelf
 - rim of underwater land where we swim, fish, and boat
- Continental Rise
 - area between continental shelf and continental slope where pieces of sediment have accumulated
- Continental Slope
 - beginning of the big drop off to the ocean depths



Etc.

- Water pressure increases, as depth increases, but temperature decreases. This affects the marine life due to sunlight, food to eat, etc.
- Food Chain
 - Most ocean food chains begin with phytoplankton
 - Phytoplankton provides the Earth with lots of Oxygen
 - Be able to draw a 5 link marine food chain
- Exxon Valdez
 - historical oil spill named after the supertanker that spilled millions of gallons of oil in Prince William Sound