



Friday, Oct 12, 2018

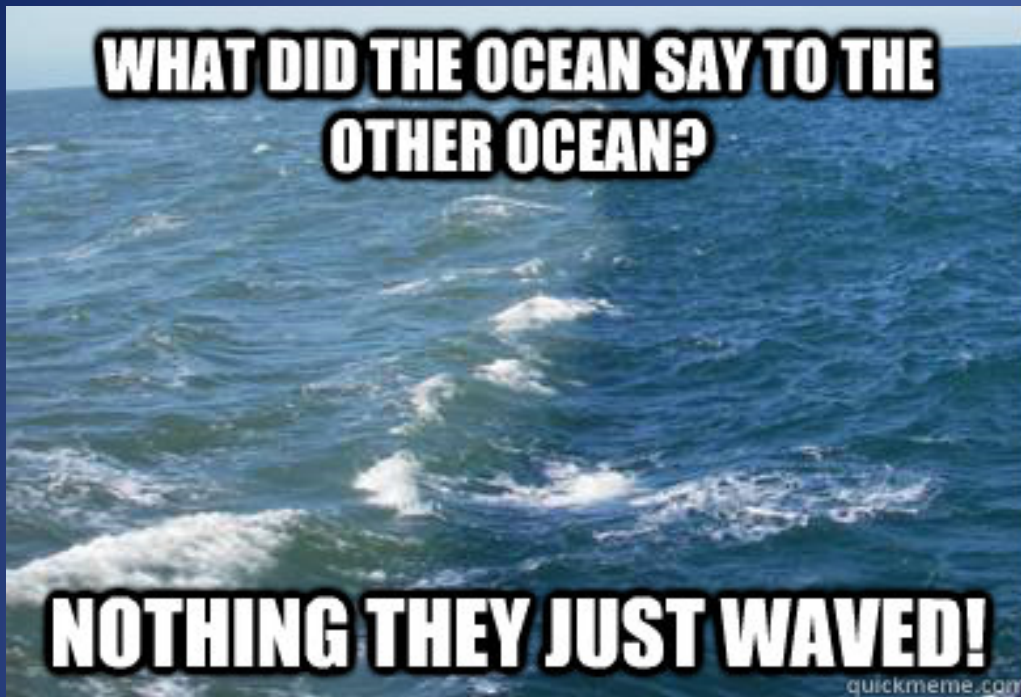
Pick up: Unit 4 Overview ISN pg 52/Rubber Duckie ½ sheet ISN pg 54 /Cornell Notes pg 55

Today you will:

- Cornell Notes on Currents
- Coriolis Effect
- Rubber Duckies

HOMEWORK:

Finish rubber duckie assignment



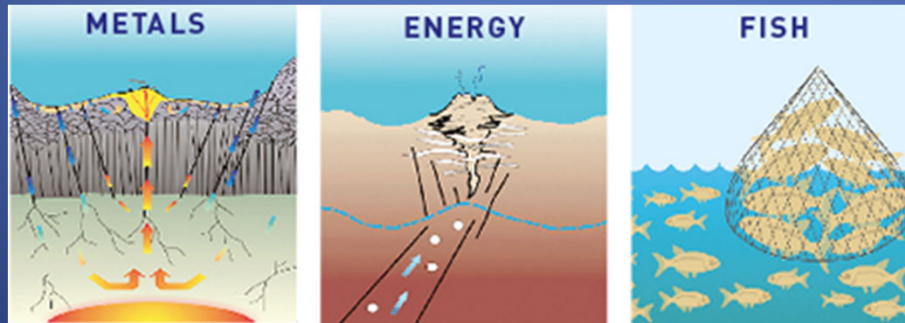
Goal: Describe how ocean conditions are responsible for deep ocean currents.

What amount of Earth's surface is covered by oceans?

- Approximately 70%
- Or more than 2/3 of planet



- What do oceans provide?
 1. transportation for seeds
 2. food, medicines, and salts
 3. 70% of Earth's oxygen



- Where did ocean water come from?

1st - volcanic eruptions released water vapor

2nd - water vapor condensed

3rd - torrential rains formed oceans



- How does the ocean stay in balance?

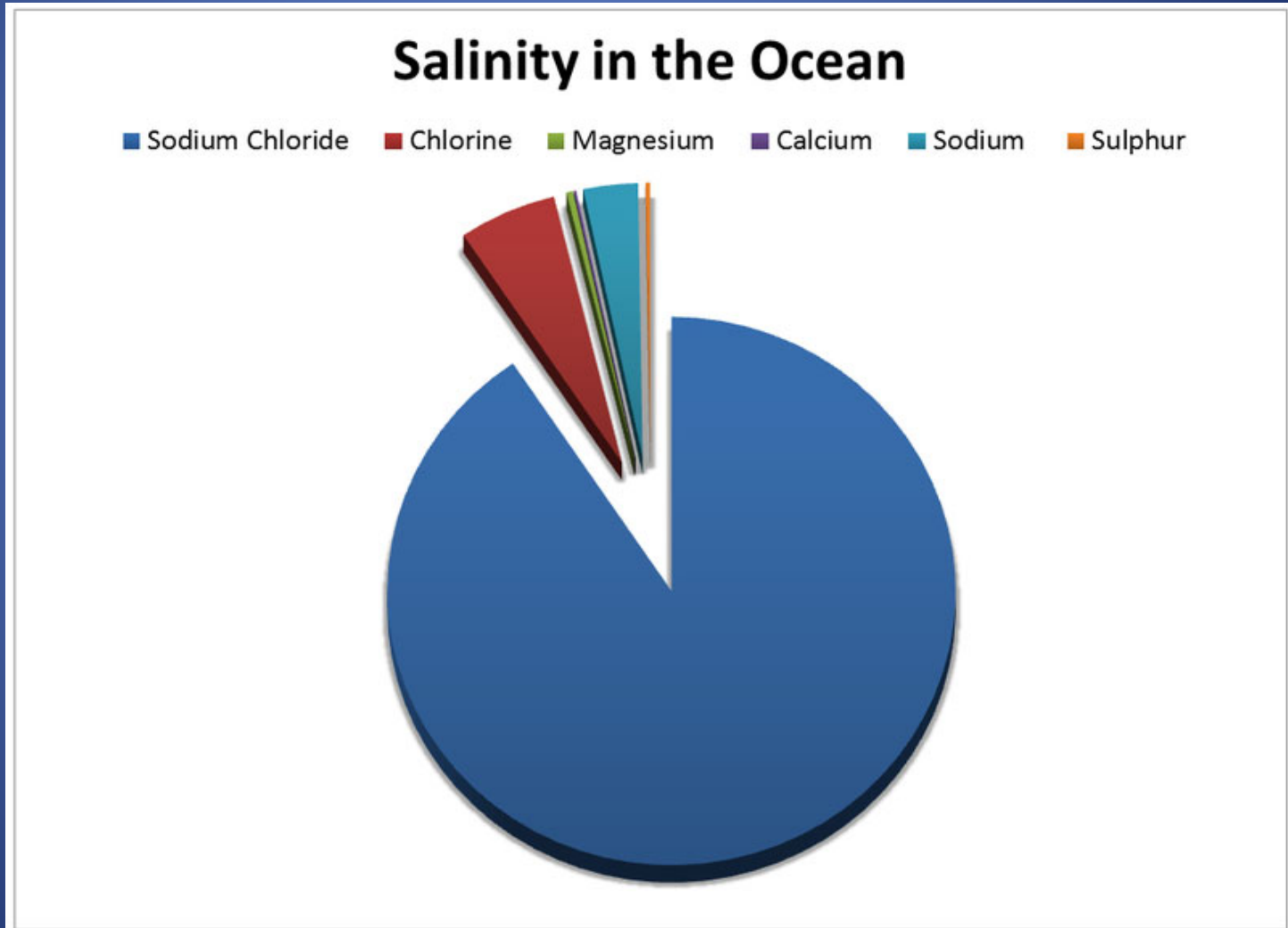
Elements are removed from the ocean at the same rate they are added.

- What are the two most common solids dissolved in the ocean?

sodium and chloride.

- What is salinity?

the measure of the amount of dissolved solids.



- What are the three most important gases dissolved in ocean water?

oxygen, carbon dioxide, and Nitrogen.

- What is photosynthesis?

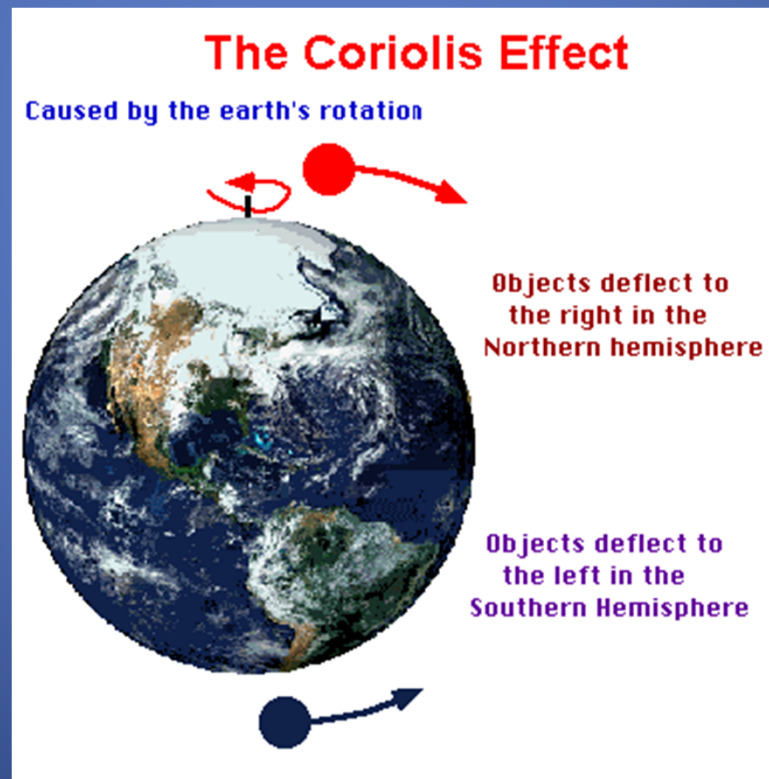
organism uses sunlight, water and carbon dioxide to make food and oxygen.

- What happens to pressure as depth increases?
 - Pressure increases as depth increases.
- What happens to temperature as depth increases?
 - Temperature decreases as depth increases
- What are the three temperature layers?
 1. surface – warm
 2. thermocline – temperature drops quickly as depth increases.
 3. Deep-water - cold

- What sets water into motion?
mostly wind
- Surface currents are caused by?
wind
- Waves are caused by?
wind

- What is the coriolis effect?

It is Earth's rotation causing currents to curve.



- REFER TO MAP: Warm surface currents run past Florida, North Carolina, and Iceland. Cold current runs past California.
- How do surface currents affect an area's climate?
 - Surface currents distribute heat from one region to another.

How is Iceland's temperature not colder than it should be?

- The Gulf Stream is the warm surface current that runs past Florida and Iceland.

