

## **Properties of Seawater: *Salinity***

Go to this site: [http://www.palomar.edu/oceanography/salty\\_ocean.htm](http://www.palomar.edu/oceanography/salty_ocean.htm)

Answer the following questions on loose-leaf.

1. How much salt do the oceans contain?
2. How much salt can be produced from 1 cubic foot of seawater by evaporation?
3. How old is the sea and what evidence is available to support this?
4. How many times saltier is seawater than fresh water?
5. How much salts are deposited in the oceans annually by rivers worldwide?
6. What does the word salinity mean?
7. Below is a list of factors that affect salinity. Predict which ones will cause salinity to increase (saltier water) and which ones will cause salinity to decrease.
  - a) Precipitation (rain or snow)
  - b) Melting ice
  - c) Inflow of rivers
  - d) Evaporation
8. Where is the saltiest water found? What is its salinity?
9. Comparing freshwater to saltwater, which one has:
  - a) More calcium?
  - b) More silica?
  - c) More bicarbonate?
10. What creatures use calcium (and bicarbonate)? What do they use this for?
11. What creatures use silica? What do they use it for?
12. What element in seawater is not removed by any known biological process?