

**suggested TOPICS FOR DGD 3 Jan 28-Feb1, 2013**  
*in addition to your questions....*

**1 Review of basics that will teach us something about our oceans!**

The earth's surface is about 70% water (same number as a baby! it drops with age women are 50-60% water, men are more watery at 60-65%... And use your common sense- what if they are fat? Fat people can go to as low as 45% water! 2/3 of this water is intracellular). Back to oceans, the most unexplored part of our planet...

- Sea water is approximately 3.5% salt. Assume all is NaCl. How does it's osmotic pressure compare to yours?
- How much salt would you get out of 1 ton of water?
- What is the density of sea water? Calculate it!

**2) Review sugars. Essay from 2010 Final exam**

*Use only words and the sugar names that you learned in class to describe this structure (it's a sweetener called Sucralose) in an unambiguous manner (unambiguous means that it could be drawn by one your colleagues from your description). FOR DGD 3, DO THIS FOR EACH SUGAR NOT THE BOND-YOU WILL NOT HAVE SEEN IT YET. Using the Haworth projection, draw the sugar on the right side of Sucralose in the pyranose form.*

