

Seawater Analysis Pre-Lab (*Due Week 7*)

Revised: 9/25/17

Write up the lab procedures for your seawater analysis lab and come up with a list of chemicals and equipment needed for the lab. Week 8 you will be testing these procedures on fake seawater. Week 9 you will perform the same test on a real seawater sample.

Procedures.

Several journal article copies have been provided under the “Week 8--Final Project: Seawater Analysis” Handout link. Find the paper that relates to the experiment you have been assigned. The procedures in these papers need to be modified to fit the experiment that you need to perform. **You can NOT just write down what they have done in the paper.** You are encouraged to also look online for other papers that deal with analyzing the chemical species you have been assigned. Use all of these references to develop your own experiment.

Turn in the following by your Week 7 lab section:

- A list of chemicals and equipment you will need to test your procedures.
 - Decide what you will use as a standard.
 - Do you need any buffers?
 - Do you need any indicators?
 - Do you need any special solutions for calibrating your instruments?
 - What instruments will you be using?
- Procedures
 - What are you using as your detection method?
 - List how to set-up any apparatus.
 - Do you need to calibrate anything?
 - What concentrations of solutions will you be using?

Make sure your procedures are detailed enough that another student could use them to perform the experiment, without having prior knowledge of the experiment.