**OCB 2010 Exam 2 Study Guide**

* Review all powerpoints
* Review and memorize all taxonomy/classification of organisms – flashcards!!!
  + Be able to match an organism to its proper classification
* What is bacterioplankton, macroplankton, meroplankton, holoplankton?
* What is eurythermal, stenothermal, euryhaline, stenohaline?
* What is countershading? What are other adaptations that marine organisms need for an aquatic life?
* What is an HAB? How are they caused? What is eutrophication?
* Are polar waters or tropical waters more productive? Why? (cold water holds more oxygen, upwelling, longer light periods during summer months) In tropical areas, there are 3 areas that can have good productivity – know those.
* What are some threats to coral reef survival? What is coral bleaching? What causes coral bleaching?
* What is the difference between phytoplankton and zooplankton?
* Are large fast-swimming fish warm or cold-blooded?
* Review the tidal zones. What are some conditions in which organisms living in the intertidal zone need to deal with?
* What are limitations for life in the deep ocean, what do organisms living there have to contend with?
* What is bioluminescence?
* Review zones of the ocean – neritic, pelagic, epipelagic, photic zone, aphotic zone, abyssalpelagic, etc.
* Essay question – practice beforehand
  + Describe the lifestyles of plankton, nekton, and benthos (include an example of organism that lives each of these lifestyles). Why is it true that plankton account for a much larger percentage of the ocean’s biomass than benthos and nekton? (think energy transfer)
  + Have opening statement/paragraph, separate paragraphs detailing your answer