

## Marine Science: Plankton and Producers

### Study Sheet

Using separate paper, please answer each of these questions as thoroughly as possible. Turn these in when you take your Marine Plankton and Producers test.

1. Differentiate between the following sets of terms:
  - a) phytoplankton—zooplankton
  - b) meroplankton—holoplankton
  - c) plankton—nekton
  - d) submergent plants—emergent plants
  - e) vascular—non-vascular
2. Discuss several reasons why plankton are so important.
3. What are copepods, and where would you expect to find them?
4. Describe the most common type of phytoplankton.
5. Describe several types of meroplankton.
6. Give several examples of holoplankton.
7. Why must phytoplankton live in the photic zone?
8. What are diatoms? How do they fit into the marine environment?
9. Describe the three phyla of algae.
10. Give the formula for photosynthesis and describe this reaction.
11. Explain why red algae has a habitat advantage over the other two phyla.
12. Explain the differences in structure between an alga and a sea grass.
13. Compare and contrast sea grasses and emergent plants.
14. Name the three most common Florida sea grasses.
15. Discuss at least three reasons why sea grasses are important.
16. Contrast the three types of mangroves, then describe their zonation.
17. Discuss at least three reasons why mangroves are ecologically important.
18. Name three different emergent plants that you would expect to find in a salt marsh environment.