**Unit 2: Marine Biomes**

1. What are abiotic factors? Give examples.
2. What are biotic factors? Give examples.
3. What are the zones of the ocean? Describe each.
4. Describe how feeding in the ocean works.
5. Define: autotroph, heterotroph, decomposer, and scavenger.
6. Why are decomposers considered to be one of the most important links in a food web?
7. How is energy transferred through a food web?
8. Why is there typically only 4 links in a food chain?
9. What part of the food chain are photosynthetic organism found in?
10. Why is a food chain in the shape of a pyramid?
11. Describe the three types of symbiotic relationships.
12. Why are marine biomes so important?
13. What are phytoplankton?
14. Why are plankton so important?
15. What do phytoplankton need to grow and reproduce?
16. What organisms are considered to be “Nekton”?
17. What factors affect where nekton go in the ocean?
18. What are harmful algal blooms and how do they occur? What are the effects of these?
19. What organisms are restricted to the bottom of the ocean?
20. Why do we need to classify organisms?
21. What is the difference between a cladogram and a dichotomous key?
22. What is biodiversity and why is it integral to the survival of species?
23. Why are adaptations important for survival?
24. Describe the 3 types of adaptations.
25. Explain the effects of biomagnification and how they affect us as humans.