Marine Science Test 3 Study Guide

1. What are biogeochemical cycles?
2. Why do chemicals have to be recycled?

Water Cycle:

1. Understand the water cycle as a whole.
2. What is evaporation?
3. What is transpiration (evapotranspiration)?
4. What it condensation?
5. What is precipitation? Be able to name multiple types of precipitation.
6. What is runoff? What can runoff create environmental problems?
7. What is infiltration?

Carbon Cycle:

1. Understand the carbon cycle as a whole.
2. Be able to name the processes that release carbon into the atmosphere.
3. Be able to name the processes that remove carbon from the atmosphere.
4. What processes lock carbon underground?
5. What is CaCO3? What eventually happens to the CaCO3 in the carbon cycle?
6. What is the greenhouse effect? Why is the greenhouse effect a good thing?
7. Understand how CO2 and the greenhouse effect causes global warming.

Nitrogen Cycle:

1. Understand the Nitrogen Cycle as a whole.
2. How much of the atmosphere is nitrogen?
3. In what form is atmospheric nitrogen?
4. What is nitrogen used for in living organisms?
5. Can plants use atmospheric nitrogen to make proteins?
6. What is nitrogen fixation?
7. How do consumers get the nitrogen they need to make proteins?
8. What is denitrification?