Chapter 3 Study Guide
Read Chapter 3 for an overview of the ocean properties.

_Vocabulary:_ Type definitions for the following terms.

1. Solute
2. Salinity
3. Water column
4. Trade winds
5. One Atmosphere

_Review Questions:_ Type explanations or draw (by hand) diagrams for the following.

6. What properties does water have that makes it so unique?

7. How does that solid state of water being less dense than its liquid phase benefit aquatic organisms?

8. How does waters heat capacity benefit marine organisms?

9. Explain how the universal solvent dissolves solids.

10. Where does seawater get its dissolved solids?

11. What is the main reason for changing salinity in the ocean?

12. What contributes to the density of seawater?

13. What ocean gases are important to living organisms?

14. ROYGBIV- how do these colors behave in the ocean?

15. At what rate does water pressure change? How can that affect the scientist or the organism being studied?
16. Draw a diagram and explain Coriolis effect.

17. How does the wind effect the ocean? El Nino?

18. Diagram and explain the following wave terms: crest, trough, height, wavelength, seas, swells, break, and surf.

19. Draw the Earth, moon and sun and show the water on the earth and where high tide and low tide are.

20. Explain spring tide and neap tide and what causes it.

21. Go online and find a tide table for somewhere you would like to visit, live, or go to school. (Obviously by the ocean) Decide if it is semidiurnal, mixed semidiurnal or diurnal and label it and attach it to your study guide.

22. Explain the cause of tsunamis.

23. Describe the three dimensions of the ocean habitat.

24. What are the three layers in the ocean and what determines the difference?