Unit 3 Hydrosphere Study Guide

- 1. Define the following terms:
 - a. El Nino
 - b. La Nina
 - c. Convection
 - d. Salinity
 - e. Density
 - f. Geyser
 - g. Aquifer
 - h. Spring
 - i. Infiltration
 - j. Saltwater intrusion
 - k. Estuaries
 - I. Inlet waterways
 - m. Impermeable
 - n. Watershed
 - o. Thermal pollution
 - p. point source pollution
 - q. nonpoint source pollution
- 2. How does temperature and salinity affect the density of ocean water?
- 3. How do these changes in temperature/salinity result in the movement of ocean water currents?

- 4. How do ocean currents impact the weather?
 - a. How do coastal climates differ from inland climates along the West Coast (California)? and along the East Coast (North Carolina)?
 - b. Describe the differences between El Nino and La Nina.
- 5. Describe the Water Cycle by defining the following terms:
 - a. Evaporation
 - b. Transpiration
 - c. Condensation
 - d. Precipitation
 - e. Surface water
 - f. Subsurface (Groundwater)
 - g. Accumulation
- 6. Describe how water moves through river systems (use the terms "river basins", "aquifers", and "watersheds").
- 7. Describe how events such as floods and droughts can affect water levels and what impact this has on well water availability.
- 8. Describe ways in which humans use water.
- 9. What are some of the consequences of using water resources?
- 10. What are some of the effects of uncontrolled population growth on potable water (freshwater availability)?
- 11. In what ways can surface and groundwater get polluted?
- 12. Where does your water go when you are finished with it (ie. toilet water, shower water, laundry water)?

- 13. How do things make it into streams?
- 14. In what ways can human use of water impact aquatic life?
- 15. What is the difference between point source pollution and nonpoint source pollution?
- 16. What are some of the effects of building structures that alter the flow of water (ie. dams and artificial levees)?