**Thermohaline Pre/post Quiz—What do you know about deep ocean circulation?**

1. When is water at its densest?
   1. When it is around 4oC b. When it is around 40oC

1. When it is a solid—ice d. When it is at 0oC
2. Seawater is typically denser than freshwater due to:

a. Greater depth b. Salinity

c. Fish pee (urine) d. The presence of basaltic ocean crust.

3. **True or False:** Vertical mixing of surface ocean water and deep ocean water occurs throughout the oceans. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. What properties influence the overall **density** of ocean water?

* 1. Precipitation b. Water temperature c. The amount of water

1. Salinity e. Both A and C f. Both B and D

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ causes deep ocean currents (Thermohaline Circulation) to flow.

a. Wind b. Gravity

c. The Coriolis Effect d. Density Differences

6. What Latitudes would have the coldest seawater?

a. High-Latitudes b. Mid-Latitudes c. Low-Latitudes

7. What Latitudes would have the densest seawater?

a. High-Latitudes b. Mid-Latitudes c. Low-Latitudes

8. At what Latitudes would the Thermohaline circulation initiate?

a. High-Latitudes b. Mid-Latitudes c. Low-Latitudes