

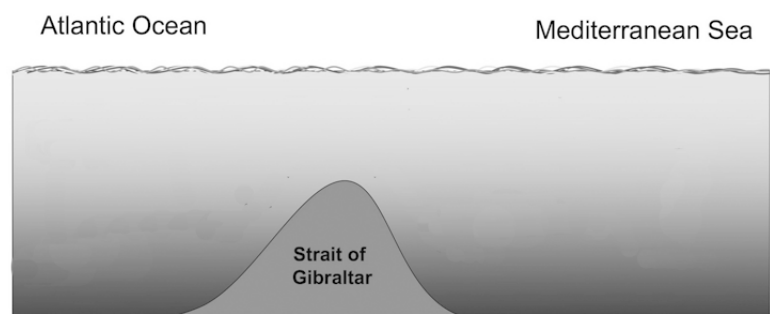
8T Assignment 11: Density Currents and Convection

Name: _____

1. Complete the chart below:

	Atlantic Ocean	Mediterranean Sea
Temperature (colder/warmer)		
Salinity (lower/higher)		
Explain <i>why</i> the temperature and salinity of the Mediterranean Sea is so different from the Atlantic Ocean.		

2. The sketch to the right shows where the water of the Atlantic Ocean meets the Mediterranean Sea at the Strait of Gibraltar. Please use arrows to show how the water of both the Atlantic and the Mediterranean flows at the strait.



3. Deep ocean circulation begins with sinking water in the polar regions of the North Atlantic Ocean. Why does the water sink here rather than in the North Pacific → in other words, what is different about the water in the North Atlantic and why is it different?

3. Use arrows to draw a complete convection cell for the air in this room (assume that there is a fire burning in the fireplace). **Carefully label your arrows in order to completely explain every step** of the convection cell and **why convection is taking place**.

