Thermohaline Circulation Lab Report

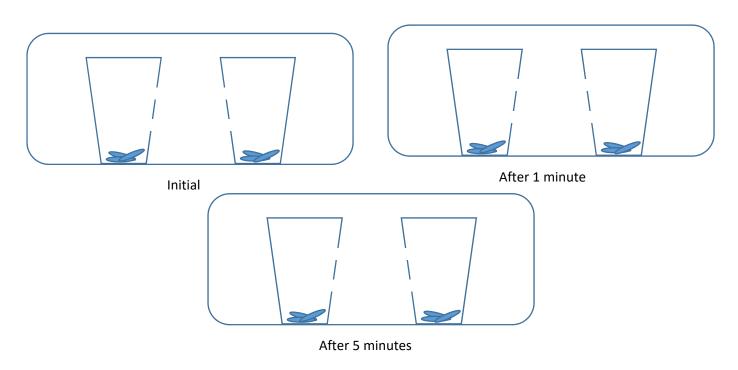
We will be using this experiment to better understand and model the thermohaline circulation indicative of the global ocean.

Question: How do differences in salinity and temperature affect the interaction of two water samples?

Experimental Setup: You will be comparing the interaction between water with different salinity, temperature and density.

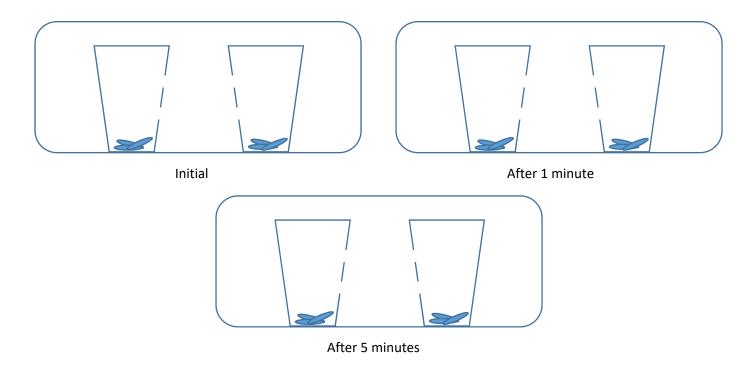
Part A. Salinity: Fresh vs. Salt	
Create a hypothesis for how you think the fresh and salt water will interact in this tria	ıl.

Using the templates below, record the pattern of any flow of water for this trial.





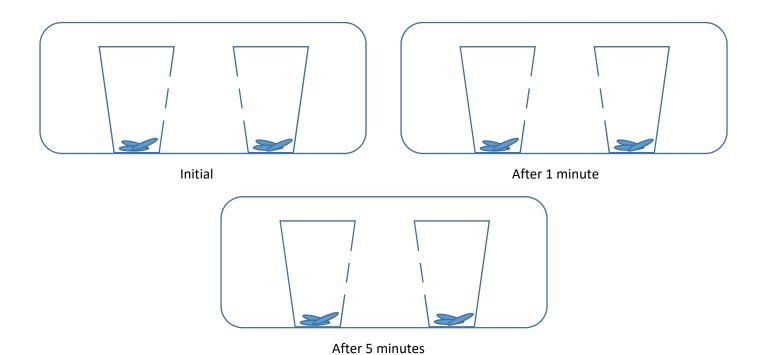
Part B. Temperature: Hot vs. Cold
Create a hypothesis for how you think the hot and cold water will interact in this trial.
Using the templates below record the pattern of any flow of water for this trial



Part C. Density: Hot/Fresh vs. Cold/Salt

Create a hypothesis for how you thin this trial.	k the hot fresh and	cold salt water will ir	nteract in

Using the templates below, record the pattern of any flow of water for this trial.



Conclusion:

Explain how differences in salinity can cause the movement of water.
2. Explain how differences in temperature can cause the movement of water.
3. Explain how salinity interacts with temperature to cause the movement of water
4. What do you think would happen if you left the experiment overnight in: a. Part A: same-temperature salt water vs fresh water
b. Part B: hot and cold fresh water

