Model Oceans Experiment

1. What is current? A current is a large body of moving water in the ocean.
2. Describe the density of the water in the ocean. Look at page 87 in our textbook. The density of the water depends on the temperature and saltiness if it is dense it has to be cold and salty.

| Model Number | Prediction | Observations (You need at least three) |
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| 1 | I think the water is going to go up. | I noticed the heat rises on top of the water, the room temperature water sinks, and the density of the water is lower. |
| 2 | I think the cold water will sink. | I noticed the density was higher, I noticed the cold water sunk, and I noticed that the room temperature water rose up. |
| 3 | I think the ice is going to freeze up some of the ocean. | I noticed that the bottom froze, the room temperature became higher, and the density was really high. |
| 4 | I think the salt will go to the bottom. | The salt goes to the bottom of the ocean, the room temperature stays the same as last time, and the salt water overcomes the fresh water. |
| 5 | The cold water will drag the room temperature water to the bottom. | The cold water dragged the room temperature water down, the cold water took slower to get down to the bottom, and the temperature became a little lower but still colder. |
| 6 | I think the hot water will make the salt water rise down. | The salt hot water goes to the bottom of the ocean, the temperature will be the same |
| 7 | Uhhh I do not know. | The water spreads all around the ocean, it does not sink this time, and the room temperature is sinking. |
| 8 | The water will sink. | The cold water sank really fast, the salt made it sink faster, and the room temperature was higher. |
| 9 | The water will rise. | The hot water rose up to the top of the ocean, the water rose very fast, and the room temperature sank. |

Summarize what happened in this experiment and what you found out about density driven currents in at least five full sentences. In this experiment the density was not dense at the beginning. But the density just kept being dense and less dense. The room temperature was rising and decreasing. The saltiness was going to increase for the most part but for the last of it it decreased all the way. The water was mostly cold and hot and it sank for most of the time but then the water rose up.