# TITLE: Temperature Effects on Density of Salt Water

HYPOTHESIS: (How does changing temperature change the density of water?)

***When the temperature of salt water increases, the density…***

MATERIALS:

 250 mL Graduated Cylinder

 1000 mL Beaker

 Thermometer

 4% Salt Solution

 Hydrometer

 Hot Water

PROCEDURE:

Setup Diagram

1. Calibrate Hydrometer
2. Place thermometer inside of graduated cylinder.
3. Fill graduated cylinder with ~230-250 ml of 4% salt water.
4. Carefully place hydrometer into graduated cylinder. Record starting temperature and density onto data table.
5. Place cylinder in 1000 ml beaker filled with hot water.
6. Continue recording temperature and density every 1-2 degrees Celsius until end of class. **Initial temperature change will be fast**!

DATA:

* **Independent** :
* **Dependent**:

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# DATA ANALYSIS: Graph your data on the graph provided below.