Name: _____

Volume vs. Density Phet

Problem Statement/Introduction: If volume increases or decreases how does the value of density change?

Hypothesis: If the mass remains constant and the volume _____, then the density of the cube will _____.

Materials (List them out.):

Procedures:

1. At the top click the my block option

2. Set the mass of the block at 5.00 kg by typing it in.

3. Set the volume of the block at 1.00 L by typing it in.

4. Record the volume and the behavior of the cube in the water. Be specific if the cube begins to float.

5. Do steps 3-4 several more times. Increase the volume until you reach the volume of 10.00 L.

Variables and Control for Hypothesis:

Independent:

Dependent:

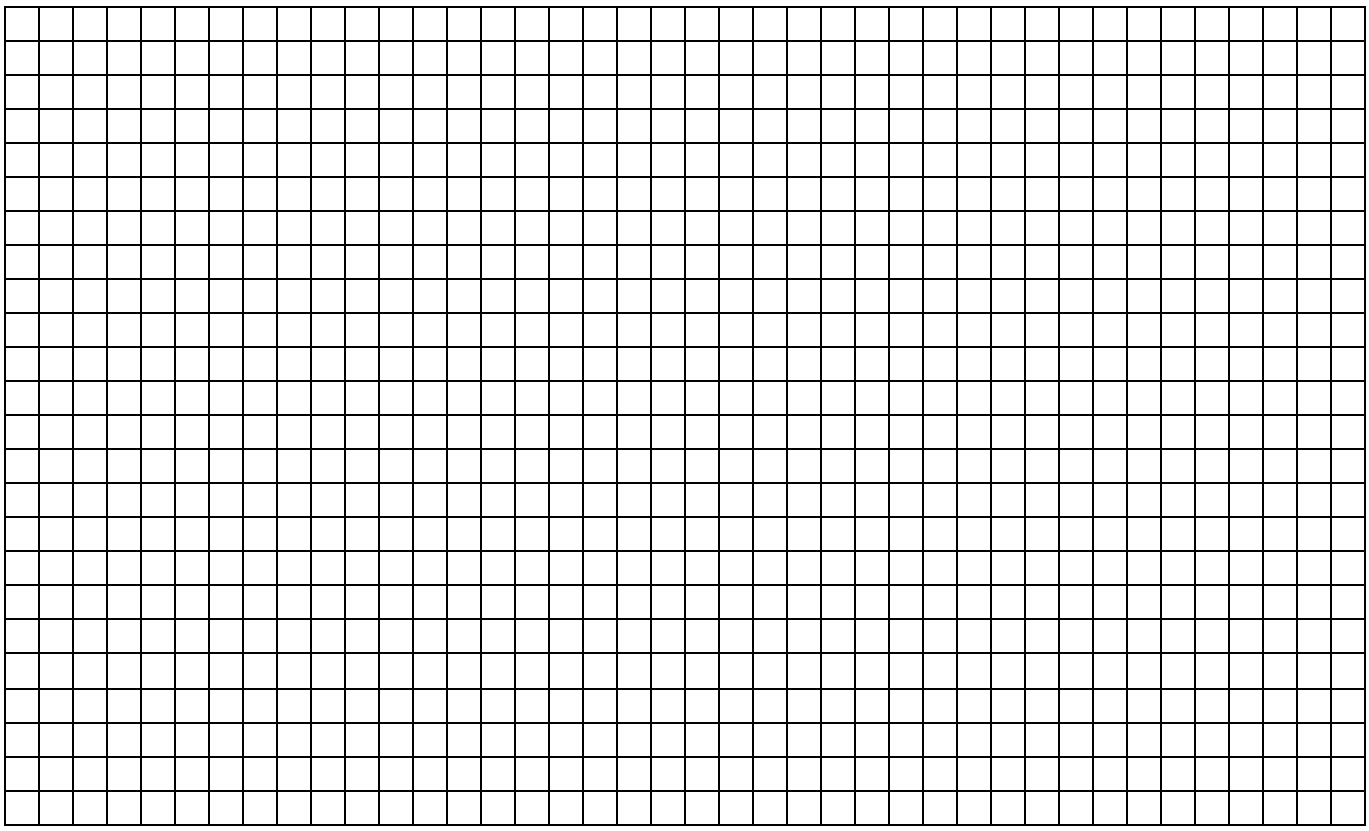
Constant Variables:

Data:

Mass (g)	Volume (L)	Density (g/L)	Behavior of Cube
5.00 kg			
5.00 kg			
5.00 kg			
5.00 kg			
5.00 kg			
5.00 kg			

5.00 kg			
5.00 kg			
5.00 kg			
5.00 kg			

Make a graph that shows how the dependent variable changes as the independent variable changes.



Conclusion (2-3 sentences):