Density of different sizes

Density = $\frac{\text{Mass}}{\text{Volume}}$

Question: Does the size of an object affect the density of the object?

Hypothesis: I think

Data Table:

Water level or equation for volume:	Object	Mass (g)	Volume (ml or cm^3)	Density (g/ml) or (g/cm^3)
40 ml	Whole crayon	4.7 g	3 ml	
30 ml	Piece of crayon	3.2 g	2 ml	
20 ml	Bigger ball of clay	11.5 g	6 ml	
20 ml	Smaller ball of clay	3.7 g	2 ml	
l x w x h	Large wooden block	80.5 g	155.6 cm^3	
l x w x h	Small wooden block	22.8 g	47.42 cm^3	

Density Lab: Results and Conclusion

1. For each object, compare the density of the whole/larger object with the densities of the smaller pieces. What do you notice about the densities?

2. Look at the data you collected. Which objects would float in water? Which objects would sink in water? How do you know?

3. Conclusion: Did your results support your hypothesis? Why or why not?