

## Data Table

Sample Cylinder	Color	Length (cm)	Initial Volume of Water (mL)	Volume of Water & Sample Cylinder (mL)	Float or Sink?	Volume of Sample Cylinder (cm <sup>3</sup> )	Density (g/cm <sup>3</sup> )
1							
2							
3							
4							
5							

## Post-Lab Questions

1. Was the same amount of water displaced for each sample cylinder? Why?
2. If all of the sample cylinders were of equal volume, would the same amount of water be displaced for each sample?
3. What was the relationship between the volume and density of the sample cylinders? (Remember, they all have the same mass.)
4. Did any of the sample cylinders float in the water? If so, why?