Names:

ALWAYS RECORD PROPER SIGNIFICANT FIGURES AND UNITS ON THE DATA SHEET!

Part 1: Measure mass, volume, and length while creating a polymer.

1. Analytical Balance

Mass of calcium chloride (record proper significant figures and units):

2. 100 mL Graduated Cylinder

Volume of water (record proper significant figures and units):t

3. Centimeter Ruler

Length of polymer created (record proper significant figures and units):



Part 2: Calculate the density of an unknown metal solid via geometric measurements and calculation of the solid's volume.

Mass of metal cylinder	
Diameter of metal cylinder	
Length of metal cylinder	
Volume of metal cylinder	
Density of metal cylinder	

Part 3: Calculate the density of an unknown metal solid via water displacement measurement and calculation of the solid's volume.

Mass of metal cylinder	
Initial volume of water	
Final volume of water	
Volume of metal cylinder	
Density of metal cylinder	

Part 4: Calculate and compare the densities of a golf ball and salt water. Golf Ball:

Mass of golf ball	
Initial volume of water	
Final volume of water	
Volume of golf ball	
Density of golf ball	

Salt Water (Salt solution)

Initial mass of empty beaker	
Final mass of beaker and salt solution	
Mass of salt solution	
Volume of salt solution	
Density of salt solution	

Observation of golf ball in salt solution: