

Experiment Number #4
Density of Cola and Diet Cola

Date
Name(s) of Lab

Objective

The objective of this lab is to compare the density of cola and diet cola mathematically & graphically.

Procedure

1. Record the mass of a clean, dry graduated cylinder.
2. Measure 5.0 ml of degassed cola as accurately as possible.
3. Place the graduated cylinder and cola on balance and record mass.
4. Calculate the mass of 5.0 ml of cola.
5. Add degassed cola to graduated cylinder to a total volume of 10.0 ml and mass
6. Repeat these steps using 15.0 ml and 20.0 ml of cola
7. Repeat steps 2-6 using degassed diet cola. [Data](#)

Data for Cola

Mass of cylinder _____

	Volume (ml)	Mass cola in cylinder	Mass of cola
Trial 1	5.0		
Trial 2	10.0		
Trial 3	15.0		
Trial 4	20.0		

Data for Diet Cola

Mass of cylinder _____

	Volume (ml)	Mass cola in cylinder	Mass of cola
Trial 1	5.0		
Trial 2	10.0		
Trial 3	15.0		
Trial 4	20.0		