Eudiometry Data Sheet

Student Name:

Partner Name:

Date	Instructor's Initials	Grade

Part One			
Atmospheric Pressure =			
	Trial 1	Trial 2	Trial 3
Mass of Calcium Carbonate			
Volume of Gas Column			
Height of Water Column			
Temperature of Water			
Density of Water			
Vapor Pressure of Water			

Calculate the pressure of the carbon dioxide gas evolved for all three trials. Make sure to apply the corrections for both the water vapor and hydrostatic pressure.

Calculate the moles reacted for all three trials.
Calculate the actual number of moles reacted for all three trials.
Calculate the percent yield for each trial and report an average.

Part Two			
	Trial 1	Trial 2	Trial 3
Mass of Unknown Mixture			
Volume of Gas Column			
Height of Water Column			
Temperature of Water			
Density of Water			
Vapor Pressure of Water			

Calculate the pressure of the carbon dioxide gas evolved for all three trials. Make sure to apply the corrections for both the water vapor and hydrostatic pressure.

Calculate the number of moles reacted for each trial.

Use the average percent yield from Part One to determine the actual number of moles.

Convert the actual number of moles to mass for each trial.

Calculate the %mass of calcium carbonate in your unknown mixture for each trial and report an average.