Eudiometry Data Sheet				
Student Name:				
Partner Name:				
Date	Instructor's Initials	Grade		

Part One				
Atmospheric Pressure = 102.8 kPa				
	Trial 1	Trial 2	Trial 3	
Mass of Calcium Carbonate	0.120 g	0.128 g	0.132 g	
Volume of Gas Column	31.38 mL	33.01 mL	33.70 mL	
Height of Water Column	41.6 cm	37.5 cm	36.0 cm	
Temperature of Water	25.0 °C	26.0 °C	24.0 °C	
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.

Eudiometry Data Sheet

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.

Eudiometry Data Sheet

Part Two				
Trial 1	Trial 2	Trial 3		
0.122 g	0.118 g	0.125 g		
16.31 mL	15.75 mL	16.03 mL		
70.3 cm	71.2 cm	69.6 cm		
25.0 °C	26.0 °C	25.0 °C		
	Trial 1 0.122 g 16.31 mL 70.3 cm	Trial 1 Trial 2 0.122 g 0.118 g 16.31 mL 15.75 mL 70.3 cm 71.2 cm		

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

Calculate the number of moles reacted for each trial.

Eudiometry Data Sheet

Lies the guerage persent yield from Dart One to determine the actual number of males
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.
Convert the actual number of moles to mass for each that.
Calculate the %mass of calcium carbonate in your unknown mixture for each trial and report an
average.