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Gases Lab - Barometer
Behind Instructor's Desk
Read Atmospheric Pressure in mmHg
Pressure in the Apparatus is:
Atmospheric (barometric) Pressure - Vacuum Gauge Reading
Instructor will write pressure on the blackboard
LPT

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## Data Interpretation

Plot temperature versus volume graph for Part A of this experiment.
(Temperature values on the x -axis; higher temperatures on the right)
Plot the corresponding total volume of the gas in the flask values on the $\mathbf{y}$-axis
Conclusion
Indicate:
Change of gas volume with change in temperature
$\qquad$

Product of the pressure and volume of the gas at constant temperature
Hints:
If $\mathrm{V} / \mathrm{T}=$ a constant (within experimental error), then $\mathrm{V} \& \mathrm{~T}$ are directly proportional If $P x V=a$ constant (within experimental error), then $P \& V$ are inversely proportional

## Questions:

"Molecular explanation" means think about what are the molecules doing ... do not just recite the gas laws. (i.e. use Kinetic Theory of Gases)

This Lab Always Produces Good Results $\qquad$


Somewhere, Charles \& Boyle Are Smiling
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Let's Boldly Go Explore Today's Lab

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