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| Group Name: |  |

Gas Laws

Worksheet

## **LibreTexts page:** [**8: Gases**](https://chem.libretexts.org/Courses/University_of_Arkansas_Little_Rock/Chem_1402%3A_General_Chemistry_1_%28Belford%29/Laboratory/08%3A_Experiment_8_-_Gases)

## **(**<https://chem.libretexts.org/link?214685>)

**Please don’t edit, rearrange or delete anything that is already in this document. Just add your answers inside the boxes.**

**You can use shortcuts for superscripts and subscripts when needed:**

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**Part I: Boyle’s Law**

1. What are the variables in Boyle’s Law?

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1. What are the constants in Boyle’s Law?

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1. What do you plot where the pressure is the **dependent variable**? Indicate what is plotted on the x-axis and on the y-axis.

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**Part II: Gay-Lussac’s Law**

1. What are the variables in Gay-Lussac’s Law?

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1. What are the constants in Gay-Lussac’s Law?

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1. What do you plot where the pressure is the **dependent variable**? Indicate what is plotted on the x-axis and on the y-axis.

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**Part III: Charles’s Law**

1. What are the variables in Charles’s Law?

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1. What are the constants in Charles’s Law?

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1. What do you plot where the volume is the **dependent variable**? Indicate what is plotted on the x-axis and on the y-axis.

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**Part IV: Avogadro’s Law**

1. What are the variables in Avogadro’s Law?

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1. What are the constants in Avogadro’s Law?

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1. What do you plot where the volume is the **dependent variable**? Indicate what is plotted on the x-axis and on the y-axis.

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**Part V: STP**

1. What is the standard temperature? Give the value.

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1. What is the standard pressure? Give the value.

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1. What is the molar volume for an ideal gas? Give the value.

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