

Group Name:

Gas Laws Worksheet

LibreTexts page: [8: Gases](#)

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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:

X^2 Superscript Ctrl+.

X_2 Subscript Ctrl+,

Part I: Boyle's Law

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

2. What are the constants in Boyle's Law?

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

Part II: Gay-Lussac's Law

4. What are the variables in Gay-Lussac's Law?

5. What are the constants in Gay-Lussac's Law?

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

Part III: Charles's Law

7. What are the variables in Charles's Law?

8. What are the constants in Charles's Law?

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

Part IV: Avogadro's Law

10. What are the variables in Avogadro's Law?

11. What are the constants in Avogadro's Law?

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

Part V: STP

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

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

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