## Part I: Using the Ideal Gas Law

# Experiment 1: Charles's Law

Table 1: Temperature and Volume Data

Temperature Conditions	Temperature (°C)	Temperature (K)	Syringe Volume (mL)
Room Temperature	23 C	296.15 K	5 ml
Hot Water	45 C	318.15 K	1 ml
Ice Water	5 C	278.15 K	0.3 ml

#### Questions:

- Create a graph of temperature and volume data. Place temperature on the x-axis (in Kelvin) and volume (ml.) on the y-axis. Insert your graph below.
- What happened to the volume of gas when the syringe was exposed to various temperature conditions? Using the concepts explored in the Introduction, describe why this occurred, keeping in mind the definition of temperature.
- 3. Draw a straight line of best fit through your data points on your graph in question 1, extrapolating the line until it intersects the (negative) x-axis. Why can you assume a linear relationship (a straight-lined slope)?

4. At what temperature does your line intersect the x-axis? What volume corresponds to this temperature?

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Anthony H. Neidig, James N. Spencer

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particle is the total number of particles and is Boltzmann's constant given by the universal gas constant R and Avogadro's constant NA Extra parameters are introduced a is a measure for the attraction between the particles and b is the average volume excluded from v by a particle. The equation can be cast into the better known form where is a measure of the attraction between the particles is the volume excluded by a mole of particles A careful distinction. Williams & Meyers Oil and Gas Law Patrick H. Martin, Bruce M. Kramer, 2020. The Laws of Gases Robert Boyle, E. Amagat, 2017-05-22. From the PREFACE Of course anybody may read the famous Memoirs of Amagat in the original but everybody cannot so easily get these papers permanently into his possession I believe therefore with the present translations to have scored a point in the interest of accessibility and thus to have materially contributed to the advancement of science C B Brown University Providence R I March 1899.

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