

**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:

1. 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.
2. 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?

# Ideal Gas Law Lab Escience Answers

**Wenbin Ji**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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a break pressure tank which includes a lank structure a pipe arrangement defining a flow line leading through the tank  
structure from an inlet end connectable to a pipelina from reservoir and entering the tank structure near the top end thereof  
o an cullet end connectable to a pipeline leading to water supply points and leaving the tank

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construction the break pressure tank consists of the following 1000l 3cr12 stainless steel tank basket strainer with flush valve butterfly valve for isolation diaphragm operated level control valve inlet outlet and overflow pipe work operation the diaphragm valve in the bpt opens and closes as system demand fluctuates

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break pressure tank is a structure that is located between a water reservoir and supply point with the aim of reducing the pressure in the system to zero atmospheric pressure conventional break pressure tank is constructed of concrete in rectangular shape with the depth of the tank about 1 2m

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break pressure tanks which are usually made of concrete or ferrocement if break pressure tanks are used the hydraulic gradient starts again at the tank water level if suitably sized these tanks can be used within the system as storage tanks to meet peak demand reservoir storage tanks although a village s water needs are based upon a

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sep 28 2009 the velocity at the terminal point is 1 02m s the pressure is assumed to be 18bars at the outlet point the principle of the break pressure tank is not to dissipate this energy via exit losses but rather by discharging the water into a tank with a free surface

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research and insight break tank break tanks are implemented in boosting systems to supply the system if the mains supply becomes insufficient tanks are also implemented in series connected boosting systems a break tank is also used to ensure that a surge from the starting and stopping pumps doesn t affect the mains distribution

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aug 17 2020 after planning and selecting the site now turn to construct the bpt mostly the bpt is constructed downstream it is generally constructed of stone masonry rcc ferro cement etc bpt is a rectangular tank structure having a base of 1000mm 1000mm and a height of 1200mm

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nov 14 2020 the water is lifted to break pressure tank by pumping main and thereafter it is conveyed to water treatment plant using gravity main the variable cost parameters of the transmission system such as cost of pipes pumps and energy are studied

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this invention relates to a break pressure tank a break pressure tank as herein envisaged is used in a downstream location with respect to a water reservoir particularly for reducing and

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