

Outcomes and experiences S3 Physics	G	O	R	How do I know I can do this or what can you do to improve your learning in this outcome?
I can define absolute zero as the temperature at which no particles have kinetic energy				
I can convert temperatures from Kelvins to degrees Celsius and vice versa where $0\text{ K} = -273\text{ }^{\circ}\text{C}$ e.g. $27\text{ }^{\circ}\text{C} = 300\text{ K}$				
I can describe the kinetic model of an ideal gas				
I can make statements about the relationships between the following <ul style="list-style-type: none"> • Pressure – Volume (Boyle’s Law) • Pressure – Temperature (Gay-Lussac’s Law) • Volume – Temperature (Charles’ Law) 				
I can use the kinetic model to explain the relationship between the following <ul style="list-style-type: none"> • Pressure – Volume (Boyle’s Law) • Pressure – Temperature (Gay-Lussac’s Law) • Volume – Temperature (Charles’ Law) 				

<p>I can identify the quantities, and units, represented by the symbols in the formula</p> $p_1V_1 = p_2V_2$ $\frac{p_1}{T_1} = \frac{p_2}{T_2}$ $\frac{V_1}{T_1} = \frac{V_2}{T_2}$ $\frac{pV}{T} = \text{constant}$			
<p>I can carry out calculations using the formula</p> $p_1V_1 = p_2V_2$ $\frac{p_1}{T_1} = \frac{p_2}{T_2}$ $\frac{V_1}{T_1} = \frac{V_2}{T_2}$ $\frac{pV}{T} = \text{constant}$			
<p>I can recognise and sketch graphs to represent Boyle's Law, Charles' Law and Gay-Lussac's Law</p>			
<p>I can describe experiments that can verify Boyle's Law, Charles' Law and Gay-Lussac's Law</p>			