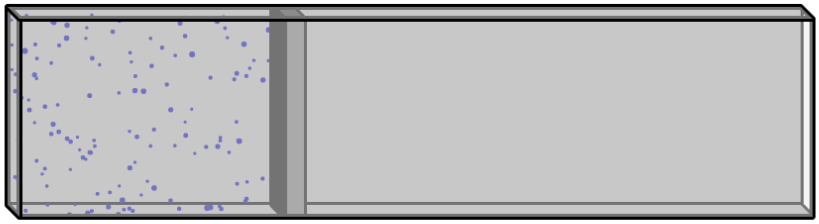
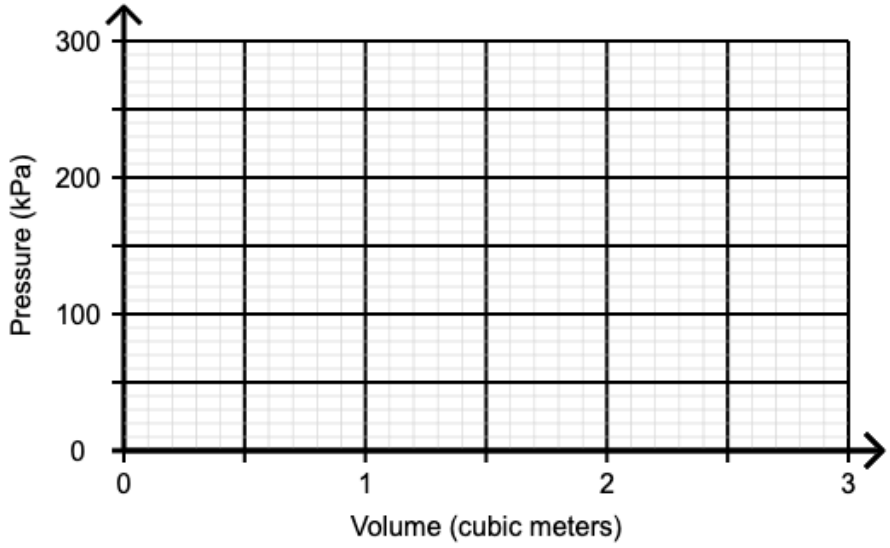
Work done in an Isobaric Process

Step 1: When you click on your gas, the gas will have heat entering the system and the piston moving to the right. Draw the arrows showing heat entering the system and the direction of work done by the gas. Also write down the number of moles in your gas



Step 2: Draw the graph that occurred as your gas heated. Use the ideal gas law to calculate the starting and ending temperatures for the process shown on your graph. Show your work below



Step 3: Calculate the work by using the formula $W = P\Delta V$. Is the work positive or negative? Explain.

Step 4: Calculate the change in internal energy of the gas using the formula $\Delta U = 3/2nR\Delta T$.

Step 5: Find the heat that entered the gas using $\Delta U = Q + W$. Then enter your answers into the program to see if you did everything correctly.