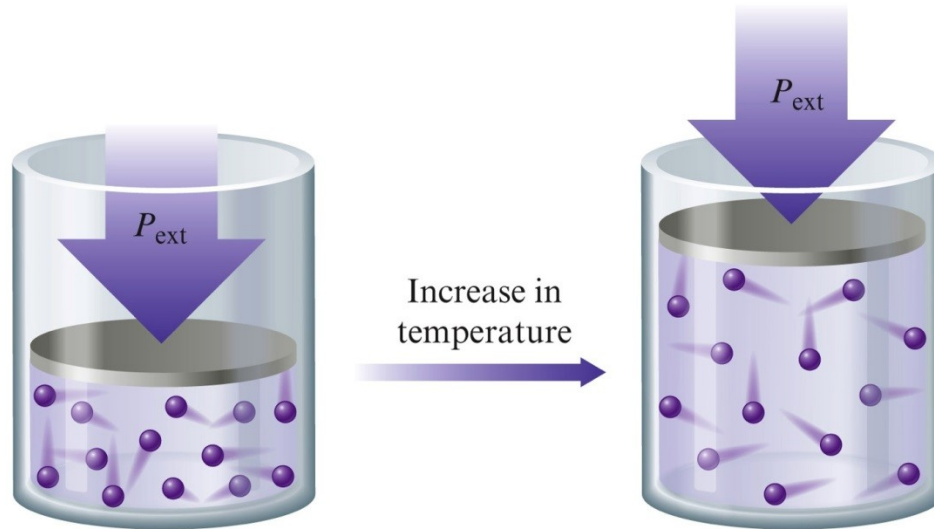


V and T (KMT)



a

A gas confined in a cylinder with a movable piston. The gas pressure P_{gas} is just balanced by the external pressure P_{ext} . That is, $P_{\text{gas}} = P_{\text{ext}}$.

b

The temperature of the gas is increased at constant pressure P_{ext} . The increased particle motions at the higher temperature push back the piston, increasing the volume of the gas.