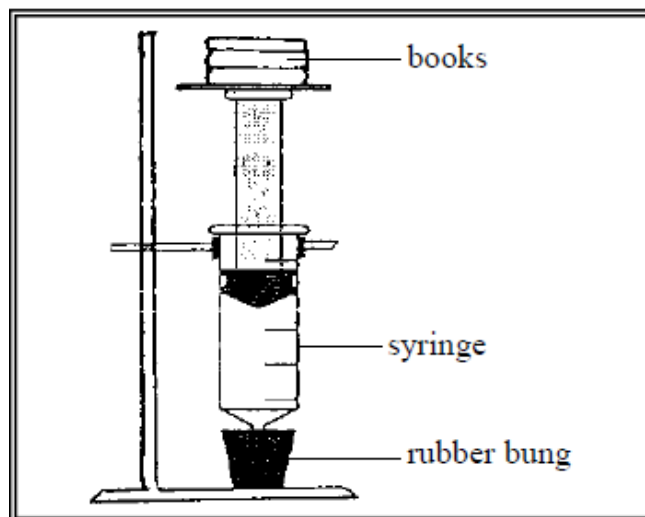


MINISTRY OF EDUCATION, HERITAGE AND ARTS
YEAR 11 CHEMISTRY
REVISION WORKSHEET 4

Write the answers to the following questions in your exercise/activity books.

1. The lovely aroma of a hot barbeque can travel many metres but in the cold weather, the aroma is hardly noticeable. Explain this observation in terms of the kinetic theory of gases. (2 marks)
2. Explain in terms of the kinetic theory of gases how increasing the temperature affects the gas molecules in a closed container. (2 marks)
3. The following experimental set-up was used to study the relationship between pressure and volume of a fixed mass of gas (Boyle's Law).



- i. In this experiment, which of the following quantities: pressure, volume or temperature is assumed to be unchanged? (1 mark)
 - ii. Explain why the volume of the gas in the syringe never becomes zero even if the pressure (number of books) is increased more. (2 marks)
 - iii. Explain why it is important to avoid any leakage of air from the syringe. (2 marks)
4. State the following laws and draw a graph to represent these laws:
- i. Charles' law (3 marks)
 - ii. Boyle's law (3 marks)

The End