

Using the equilibrium constant

Pre-lesson assignment – Textbook p294-297

Define the following terms

- Homogeneous equilibrium
- Heterogeneous equilibrium

Now watch the video tutorial on Calculating K_c from experiments

Make notes on using the equilibrium constant

Use the following questions as guidance

1. Study the worked example on Pg 294 and give the units of K_c for...
 - a. $\text{H}_{2(g)} + \text{Cl}_{2(g)} \rightleftharpoons 2\text{HCl}_{(g)}$
 - b. $\text{N}_{2(g)} + 3\text{H}_{2(g)} \rightleftharpoons 2\text{NH}_{3(g)}$

answers below
2. Explain why solids and liquids are omitted from the K_c expression in a heterogeneous equilibrium
3. Work through the examples of finding K_c from experiments. Note any practical techniques that can be used to determine concentrations of substances. Record a flow chart of how to approach this kind of question.