

SC15 Dynamic equilibria and calculations involving volumes of gases



Personal learning checklist | 1 of 1

GCSE Edexcel Separate Sciences | Chemistry Paper 1

Name _____ Class _____ Date _____

Tick one box for each statement. Red: need help. Amber: partly confident.
Green: can do independently.

I can	Red	Amber	Green
Gas calculations			
Use molar gas volume to convert between gas amount and volume (Higher).	☐	☐	☐
Apply Avogadro's law and balanced equations to reacting gas volumes (Higher).	☐	☐	☐
Calculate gas volumes from reactant masses and identify limiting reactants (Higher).	☐	☐	☐
Industrial equilibrium			
Describe Haber reactants, sources, equation and ammonia production.	☐	☐	☐
Explain how temperature, pressure, concentration and catalysts affect equilibrium attainment (Higher).	☐	☐	☐
Evaluate Haber operating conditions as a compromise between rate, yield and costs (Higher).	☐	☐	☐
Explain ammonia removal and reactant recycling in industrial equilibrium (Higher).	☐	☐	☐
Fertilisers			
Explain NPK nutrients and reactions making ammonium nitrate and ammonium sulfate.	☐	☐	☐
Describe laboratory ammonium sulfate preparation and compare industrial production.	☐	☐	☐

My next revision priority _____