



Quantitative Chemistry

Specification statement	Self-assessment		
	First review 4-7 months before exam	Second review 1-2 months before exam	Final review Week before exam
These are the bits the exam board wants you to know, make sure you can do all of these...			
I can describe different ways of measuring the mass or volume of a product of a reactant	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can explain why the mass of a reaction appears to change	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can explain that in any measurement there is a degree of uncertainty	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can calculate the concentration of a solution from the masses used	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can represent a reaction using a word equation	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can represent a reaction using a balanced symbol equation	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can calculate the relative formula mass (M_r) of a compound from the relative atomic (A_r) masses of the elements	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can define the term mole Higher tier only	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can calculate the number of moles from the mass Higher tier only	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can describe the number of particles in one mole as being equal to Avogadro's constant Higher tier only	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can calculate the mass of a reactant or a product given the equation Higher tier only	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can balance equation given information about the number of moles involved. Higher tier only	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can describe when a reactant would be used in excess Higher tier only	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can calculate the percentage yield of a reaction Chemistry only	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can calculate the atom economy of a reaction Chemistry only	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
I can explain why a reaction may not give the expected yield Chemistry only	☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹



I can carry out a titration	😊 😐 😞	😊 😐 😞	😊 😐 😞
I can calculate the concentration of a solution in mol/dm ³ Chemistry only Higher tier only	😊 😐 😞	😊 😐 😞	😊 😐 😞
I can carry out titration calculations Chemistry only Higher tier only	😊 😐 😞	😊 😐 😞	😊 😐 😞
I can recall that a gas takes up 24dm ³ under standard condition Chemistry only Higher tier only	😊 😐 😞	😊 😐 😞	😊 😐 😞
I can calculate the volume of a gas Chemistry only Higher tier only	😊 😐 😞	😊 😐 😞	😊 😐 😞