AQA Chemistry GCSE Student checklist

C4

Name .... Class .... Date ....

Chemical calculations

Lesson	Target 4		Target 6		Target 8	
C4.1 Relative masses and moles	I can use the periodic table to identify the relative atomic mass for the first 20 elements.	☐	I can use the periodic table to find the relative atomic mass of all elements.	☐	I can explain why some elements have the same relative atomic mass as each other and why relative atomic masses may not be a whole number.	☐
	I can calculate the relative formula mass for familiar compounds when the formula is supplied and is without brackets.	☐	I can calculate the relative formula mass for unfamiliar compounds when the formula is given.	☐	I can calculate the number of moles or mass of a substance from data supplied.	☐
			I can state the units for the amount of substance.	☐	I can convert between units in calculations.	☐
C4.2 Equations and calculations Ⓗ			I can explain why chemical equations must be balanced.	☐	I can interpret balanced symbol equations in terms of mole ratios.	☐
			I can calculate the relative formula mass for one substance when the relative formula masses are given for all the other substances in a balanced symbol equation.	☐	I can use balanced symbol equations to calculate reacting masses.	☐
C4.3 From masses to balanced equations Ⓗ			I can explain why chemical equations must be balanced.	☐	I can explain the effect of a limiting reactant on the amount of product made.	☐
			I can identify the limiting reactant in a chemical reaction.	☐	I can use balanced symbol equations to calculate reacting masses when there is a limiting reactant.	☐

Name.. Class.. Date..

Lesson	Target 4		Target 6		Target 8	
C4.4 Expressing concentrations	I can describe what the concentration of a solution is.	☐	I can explain how concentration of a solution can be changed.	☐	I can calculate the mass of a chemical when any volume and concentration is given.	☐
	I can calculate the concentration of a solution in g/dm3 when given the mass of solute in g and volume of solution in dm3.	☐	I can calculate the mass of solute (in g) in a solution when given the concentration in g/dm3 and volume in dm3 or cm3.	☐	I can explain the concentration of a solution in terms of particles.	☐