

# 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. <input type="checkbox"/>	I can use the periodic table to find the relative atomic mass of all elements. <input type="checkbox"/>	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. <input type="checkbox"/>
	I can calculate the relative formula mass for familiar compounds when the formula is supplied and is without brackets. <input type="checkbox"/>	I can calculate the relative formula mass for unfamiliar compounds when the formula is given. <input type="checkbox"/>	I can calculate the number of moles or mass of a substance from data supplied. <input type="checkbox"/>
		I can state the units for the amount of substance. <input type="checkbox"/>	I can convert between units in calculations. <input type="checkbox"/>
C4.2 Equations and calculations Ⓜ		I can explain why chemical equations must be balanced. <input type="checkbox"/>	I can interpret balanced symbol equations in terms of mole ratios. <input type="checkbox"/>
		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. <input type="checkbox"/>	I can use balanced symbol equations to calculate reacting masses. <input type="checkbox"/>
C4.3 From masses to balanced equations Ⓜ		I can explain why chemical equations must be balanced. <input type="checkbox"/>	I can explain the effect of a limiting reactant on the amount of product made. <input type="checkbox"/>
		I can identify the limiting reactant in a chemical reaction. <input type="checkbox"/>	I can use balanced symbol equations to calculate reacting masses when there is a limiting reactant. <input type="checkbox"/>

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C4.4 Expressing concentrations	I can describe what the concentration of a solution is.	<input type="checkbox"/>	I can explain how concentration of a solution can be changed.	<input type="checkbox"/>	I can calculate the mass of a chemical when any volume and concentration is given.	<input type="checkbox"/>
	I can calculate the concentration of a solution in g/dm <sup>3</sup> when given the mass of solute in g and volume of solution in dm <sup>3</sup> .	<input type="checkbox"/>	I can calculate the mass of solute (in g) in a solution when given the concentration in g/dm <sup>3</sup> and volume in dm <sup>3</sup> or cm <sup>3</sup> .	<input type="checkbox"/>	I can explain the concentration of a solution in terms of particles.	<input type="checkbox"/>