

# IB Chemistry Scheme of Work – Standard Level

## Learning Outcomes in red

## Practical Lessons in blue

## TOK relevance in green

Topic	Lessons (1 hour blocks)	Resources	Homeworks
<b>1: Quantitative Chemistry (15.5 hours)</b>	<b>L.O. 1.1.1-1.1.2</b> <b>The mole concept</b> and Avogadro's Constant, applying mole concept, determining number of particles.	The mole ppt, The mole calculations worksheet 1.	The mole hwk sheet
	<b>L.O. 1.1.1-1.1.2-1.1.3</b> The mole concept and <b>Avogadro's Constant</b> , solving problems related to relationship between amount of substance in moles, mass and molar mass.  <b>TOK:</b> Chemistry deals with enormous differences in scale. The magnitude of Avogadro's constant is beyond the scale of our everyday experience.	The mole 2 ppt, mole calculations worksheet 2	
	<b>L.O. 1.2.1-1.2.5</b> <b>Empirical and Molecular Formulas</b> , determining empirical formula from percentage composition and other data.  <b>TOK:</b> Assigning numbers to the masses of the chemical elements allowed chemistry to develop into a physical science and use mathematics to express relationships between reactants and products.	Empirical formula ppt, Chemical names and formulas sheet, mole ppt 2 and mole handout	
	Determining <b>The amount of water of crystallization in a hydrated salt practical</b>	Investigation sheet 6	
	<b>L.O. 1.2.1-1.2.6</b> Formulas and experimental results, <b>balancing equations</b> , determining formula from experimental data.	Balancing act sheet, Chemical formula worksheet 2, Mg and crucible practical	Chemical formulas homework sheet
	<b>L.O. 1.2.4</b> <b>Formulas and equations</b> , deducing equations from given products and reactants, identifying mole ratio of any two species, using state symbols.	Worksheet formulas sheet, formula sheet	

	<b>L.O. 1.2.5-1.3.1-1.4.2-1.4.3</b> <b>Chemical equations</b> , Calculating theoretical yields, Determining limiting reactants.	Chemical equations ppt, Writing chemical equations info sheet.	
	<b>L.O. 1.2.3-1.4.7-1.4.8</b> <b>Mass and gaseous volume relationships</b> in chemical reactions (+ 0.5 hours), applying Avogadro's law to calculating reacting volumes.	You tube clip, Calculating relative atomic mass ppt.	Average atomic mass homework sheet
	<b>L.O. 2.1.3</b> <b>Isotopes and Masses</b> , deducing symbol for an isotope given mass number and atomic number, calculating number of subatomic particles.	Calculating Relative Atomic Mass ppt, Isotopes ppt, Masses Question sheet	
	<b>L.O. 1.4.1-1.2.3-1.4.2</b> <b>Stoichiometry</b> , general questions on concentration, gases and reacting masses.	You tube video, gas stoichiometry practice sheet	
	<b>L.O. 1.4.4-1.4.5-1.4.6</b> <b>Gas Laws</b> , applying Avogadro's law to reacting volumes of gases, relationship between temperature, pressure and volume.	Tough gas laws worksheet	Mole Calculation sheet 1
	<b>1.5.1-1.5.2</b> <b>Solutions and titrations</b> , distinguishing between solute, solvent, solution and concentration	Solutions and titrations ppt, solutions worksheet, Investigation 2 (preparation of a soluble salt)	
	Determining <b>the concentration of Concentrated Nitric Acid by titration</b>	Investigation sheet 8	
	<b>L.O. 1.5.2</b> <b>Solutions and titrations</b> , problems involving concentration, amount of solute and solvent	Titration lab ppt, Investigation 8, titration practical sheet(sodium carbonate and nitric	Solutions homework

# Ib Chemistry Standard Level

**SJ Ball**



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