

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
1: Quantitative Chemistry (15.5 hours)	L.O. 1.1.1-1.1.2 The mole concept and Avogadro's Constant, applying mole concept, determining number of particles	The mole ppt, The mole calculations worksheet 1.	The mole hwk sheet
	L.O. 1.1.1-1.1.2-1.1.3 The mole concept and Avogadro's Constant , solving problems related to relationship between amount of substance in moles, mass and molar mass TOK: 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	
	L.O. 1.2.1-1.2.5 Empirical and Molecular Formulas , determining empirical formula from percentage composition and other data TOK: 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 The amount of water of crystallization in a hydrated salt practical	Investigation sheet 6	
	L.O. 1.2.1-1.2.6 Formulas and experimental results, balancing equations , determining formula from experimental data	Balancing act sheet, Chemical formula worksheet 2, Mg and crucible practical	Chemical formulas homework sheet
	L.O. 1.2.4 Formulas and equations , deducing equations from given products and reactants, identifying mole ratio of any two species, using state symbols	Worksheet formulas sheet, formula sheet	

	L.O. 1.2.5-1.3.1-1.4.2-1.4.3 Chemical equations , Calculating theoretical yields, Determining limiting reactants.	Chemical equations ppt, Writing chemical equations info sheet.	
	L.O. 1.2.3-1.4.7-1.4.8 Mass and gaseous volume relationships 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
	L.O. 2.1.3 Isotopes and Masses , 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	
	L.O. 1.4.1-1.2.3-1.4.2 Stoichiometry , general questions on concentration, gases and reacting masses	You tube video, gas stoichiometry practice sheet	
	L.O. 1.4.4-1.4.5-1.4.6 Gas Laws , applying Avogadro's law to reacting volumes of gases, relationship between temperature, pressure and volume	Tough gas laws worksheet	Mole Calculation sheet 1
	1.5.1-1.5.2 Solutions and titrations , distinguishing between solute, solvent, solution and concentration	Solutions and titrations ppt, solutions worksheet, Investigation 2 (preparation of a soluble salt)	
	Determining the concentration of Concentrated Nitric Acid by titration	Investigation sheet 8	
	L.O. 1.5.2 Solutions and titrations , 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

Lei Huang



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Table of Contents Ib Chemistry Standard Level

1. Understanding the eBook Ib Chemistry Standard Level
 - The Rise of Digital Reading Ib Chemistry Standard Level
 - Advantages of eBooks Over Traditional Books
2. Identifying Ib Chemistry Standard Level
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ib Chemistry Standard Level
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Chemistry Standard Level
 - Personalized Recommendations
 - Ib Chemistry Standard Level User Reviews and Ratings
 - Ib Chemistry Standard Level and Bestseller Lists

5. Accessing Ib Chemistry Standard Level Free and Paid eBooks
 - Ib Chemistry Standard Level Public Domain eBooks
 - Ib Chemistry Standard Level eBook Subscription Services
 - Ib Chemistry Standard Level Budget-Friendly Options
6. Navigating Ib Chemistry Standard Level eBook Formats
 - ePub, PDF, MOBI, and More
 - Ib Chemistry Standard Level Compatibility with Devices
 - Ib Chemistry Standard Level Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ib Chemistry Standard Level
 - Highlighting and Note-Taking Ib Chemistry Standard Level
 - Interactive Elements Ib Chemistry Standard Level
8. Staying Engaged with Ib Chemistry Standard Level
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ib Chemistry Standard Level
9. Balancing eBooks and Physical Books Ib Chemistry Standard Level
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ib Chemistry Standard Level
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ib Chemistry Standard Level
 - Setting Reading Goals Ib Chemistry Standard Level
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ib Chemistry Standard Level
 - Fact-Checking eBook Content of Ib Chemistry Standard Level
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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