

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. 1.1.1-1.3.2 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. 1.1.1-1.1.2-1.3.3 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

Chao Zhang



Ib Chemistry Standard Level:

IB Chemistry Tony Brown,2003 Chemistry, Standard Level, for the Ib Diploma (Etext) (Access Code Card) (Pearson Baccalaureate) Catrin Brown, Mike Ford,2018-02-10 **Standard Level Chemistry** Catrin Brown, Mike Ford,2008 Provides complete coverage of the syllabus requirements This book offers information on Chemistry for IB Diploma course **IB Chemistry** Cameron Lumsden,2008 **Chemistry SL** Alexandra Juniper, Jason Murgatroyd, International Baccalaureate Organization Staff,2011-01 A guide for students preparing for exams in chemistry standard level for the IB Diploma Programme **International Baccalaureate Standard Level Chemistry** Cameron Lumsden,2015 Learning and Understanding National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools,2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs IB Diploma Chemistry Lanna Derry,2008 Chemistry textbook for International Baccalaureate students Provided by publisher **IB Chemistry Investigations for Standard Level** David Greig,2014 **Chemistry for the IB Diploma Standard and Higher Level** Geoff Neuss,2007

IB Chemistry Revision Notes Standard Level Vincent Keat,2017-03-05 Revision notes for IB Chemistry Diploma This book includes all the facts required by the IB Organisation Course for Chemistry as well as fully worked examples Ideal for use as a summary and preparation for examinations *Choosing Your A Levels* Cerys Evans,2012-08-21 Not sure what to do after your GCSEs Are you overwhelmed by the options Choosing Your A Levels is the only impartial guide which will clearly provide you with all your options post 16 Whether you have decided to study A Levels an advanced diploma or any other further education qualification this comprehensive guide will help you take the next steps in your education If you want more advice on which subjects to take or whether you want to learn more about how they are structured Choosing Your A Levels provides you with all the information you need to make tough choices and continue into further education Containing the latest information on AS Levels this book will successfully guide you into further education Choosing Your A Levels is easy to navigate if you want information about a particular qualification or as a detailed overview of all the major post 16 further education options Inside you ll find Guidance on choosing the right qualification for you and indications of what the different

qualifications can lead to A directory of subjects by qualification for quick reference Exam tips and preparation to ease the pressure Advice to help you succeed when you get there Students all have different strengths so Choosing Your A Levels explains the involvement and details of each qualification showing how each qualification suits different learning styles This means you have all the information you need at your fingertips to make a personal and informed choice matching yourself with a qualification that works with your strengths whether they are practical skills or personal attributes for a successful post 16 education For more help and advice on choosing other post 16 qualifications please see other titles in the series Choosing Your Apprenticeship and Choosing Your Diploma

Mathematics and Science Content Standards and Curriculum Frameworks Rolf K. Blank, State Education Assessment Center (Council of Chief State School Officers), 1997 The Council of Chief State School Officers CCSSO collaborating with Policy Studies Associates and a panel of experts in mathematics and science education has completed a study of states curriculum frameworks development and standards setting from 1994 The Council study analyzed the content and quality of state frameworks and standards documents and examined how states are working with local educators on implementation This report describes the changing landscape of framework development and standards setting in the United States and identifies emerging issues for practitioners and policy makers The study was conducted with three kinds of data concerning the current situation of state standards and frameworks in mathematics and science A concept mapping analysis of all state curriculum frameworks and standards documents in mathematics and science was completed In order to identify all current state documents works in progress and dissemination and implementation activities interviews were held with state mathematics and science education specialists With the aggregated information from these sources a report that focuses on current and emerging policy issues pertaining to the implementation of standards based reform in mathematics and science education was developed Contains 27 references Author ASK *IJER Vol 25-N3* International Journal of Educational Reform, 2016-12-20 The mission of the International Journal of Educational Reform IJER is to keep readers up to date with worldwide developments in education reform by providing scholarly information and practical analysis from recognized international authorities As the only peer reviewed scholarly publication that combines authors voices without regard for the political affiliations perspectives or research methodologies IJER provides readers with a balanced view of all sides of the political and educational mainstream To this end IJER includes but is not limited to inquiry based and opinion pieces on developments in such areas as policy administration curriculum instruction law and research IJER should thus be of interest to professional educators with decision making roles and policymakers at all levels turn since it provides a broad based conversation between and among policymakers practitioners and academicians about reform goals objectives and methods for success throughout the world Readers can call on IJER to learn from an international group of reform implementers by discovering what they can do that has actually worked IJER can also help readers to understand the pitfalls of current reforms in order to avoid making similar

mistakes Finally it is the mission of IJER to help readers to learn about key issues in school reform from movers and shakers who help to study and shape the power base directing educational reform in the U S and the world **How To Choose a Pre-University Course in Malaysia** ,2022-04-22 How To Choose a Pre University Course in Malaysia Questions you should ask yourself and courses to consider before making your decision Let us help you find the best Pre University course for you

Pearson Baccalaureate: Standard Level Chemistry for the IB Diploma ,2008 Laboratory Exercises and Problems for Chemistry I and Ib B. Smith Hopkins,Harvey A. Neville,1926 *Education of the Gifted and Talented* Gary A. Davis,Sylvia B. Rimm,2004 This practical resource presents the best ideas and practices in the field of gifted education From planning a sound gifted and talented program to the evaluation of a program this leading text explores contemporary program models problems of minority disabled and female gifted students Chapters on creativity and teaching thinking skills two concepts central to gifted education help the reader understand creative students creative processes and how to foster high levels of creative thinking Chs 10 11 *Education of the Gifted and Talented 4 e* is current and accurate Couldn t ask for a better text Michael F Shaughnessy Eastern New Mexico University The authors have mastered the fine art of writing in an interesting and intellectually challenging manner no small feat I love this book Amy P Dietrich The University of Memphis The comprehensiveness of the coverage for an introductory text is a major strength Sally M Reis University of Connecticut

Pedagogy in a New Tonality Peter Gouzouasis,2011 This is a book for teachers by teachers from elementary school to university level classrooms It is about the use of creative instructional strategies in K 12 class room settings and the transformations the teachers made in their journeys from being traditional practitioners to becoming pedagogical in their approaches to teaching and learning across the curriculum Over twenty teachers conducted research in their classrooms on the implementation of creative strategies tactics graphics organizers and visual journals in teaching and learning They have written their inquiries in a narrative style informed by various forms of arts based educational research Their research is approachable and usable by other teachers who are interested in becoming reflective reflexive practitioners Many of the strategies tactics and graphics organizers are described by Barrie Bennett in his widely used textbook *Beyond Monet The Artful Science of Instructional Intelligence* However through their journeys of becoming teacher learner researchers many discovered numerous creative variations of Bennett s work as it was implemented in their classrooms While there are many professional books that provide ideas on collaborative learning and creative teaching approaches there is very little published research on the efficacy of these concepts in the K 12 classroom These inquiries provide practical insights into how inspired teachers can conduct research on improving their own practice as well as on greatly improving their students learning

Internal Assessment for Chemistry for the IB Diploma Christopher Talbot,2018-08-27 Exam board International Baccalaureate Level IB Diploma Subject Chemistry First teaching September 2014 First exams Summer 2016 Aim for the best Internal Assessment grade with this year round companion full of advice and guidance from an experienced IB Diploma

Chemistry teacher Build your skills for the Individual Investigation with prescribed practicals supported by detailed examiner advice expert tips and common mistakes to avoid Improve your confidence by analysing and practicing the practical skills required with comprehension checks throughout Prepare for the Internal Assessment report through exemplars worked answers and commentary Navigate the IB requirements with clear concise explanations including advice on assessment objectives and rules on academic honesty Develop fully rounded and responsible learning with explicit reference to the IB learner profile and ATLs

Ib Chemistry Standard Level Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Ib Chemistry Standard Level**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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