

## CHEMISTRY EXTENDED ESSAY

These subject guidelines should be read in conjunction with the IB extended essay general guidelines.

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### Introduction

An extended essay in chemistry provides a candidate with an opportunity to investigate personally a particular aspect of the materials of our environment. Such extended essays must be characterized by a particular chemical emphasis within a more general set of scientific criteria.

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### Choice of Topic

It is important that the extended essay has a clear chemical emphasis and is not more closely related to another subject. Chemistry is the science that deals with the composition, characterization, and transformation of substances. A chemistry extended essay should therefore incorporate chemical principles and theory, and emphasize the essential nature of chemistry, relating to the study of matter and of the changes it undergoes. Although similar criteria apply to all extended essays in the experimental sciences, for an extended essay submitted in chemistry the topic chosen must allow an approach which distinctly involves chemistry. Where a topic might be approached from different viewpoints, the treatment of the material must be approached from a chemical perspective.

An extended essay in an interdisciplinary area such as biochemistry will, if registered as a chemistry extended essay, be judged on its chemical content, not its biological content. The scope of the topic and the research associated with it should enable all the criteria, particularly the subject specific criteria, to be addressed. A good topic is one where the single research question is sharply focused and is susceptible to effective treatment within the word limit. Perhaps the most important factor is the depth of treatment that can be given to the topic by the candidate.

Some topics may be unsuitable for investigation because of safety issues. For example, experiments involving toxic or dangerous chemicals, carcinogenic substances or radioactive materials should be avoided unless adequate safety apparatus and qualified supervision is available.

Other topics may be unsuitable because the outcome is already well known and documented in standard text books and the candidate may not be able to show any personal input. An example might be a study of the reactions of the alkali metals with water as this is already covered by the syllabus. However some care does need to be exercised in deciding whether a topic is suitable or not; for example, a few years ago the study of the allotropes of carbon may have been thought to be trivial but this would not be the case today.

# Sample Chemistry Extended Essay

**Yan Bai**



### **Sample Chemistry Extended Essay:**

**The International Baccalaureate Diploma Program and the School Library** Anthony Tilke, 2011-03-11 This book a blend of practice and theory shows how the school library can contribute to the success of the International Baccalaureate Diploma Program Written for librarians in schools that are applying to offer the program as well as those who already work with it The International Baccalaureate Diploma Program and the School Library Inquiry Based Education provides information and strategies specifically relating libraries to the IBDP The guide includes information about the IBDP ranging from the subject matrix to unique aspects of the program such as the Theory of Knowledge course the Extended Essay requirement and the Learner Profile The book also discusses other important features of IB programs such as internationalism and academic honesty Finally it blends theory and practice by providing details and findings from the only two year research study to follow students and teachers through the IBDP The study demonstrates the role of the school library in the program showing how both students and teachers used and valued it Each chapter concludes with a series of points or strategies for the librarian to reflect upon and or use as the basis of action *Practical Environmental Analysis* Miroslav Radojevic, Vladimir N Bashkin, 2015-11-09 New techniques improved understanding and changes in regulations relating to environmental analysis means that students technicians and lecturers alike need an up to date guide to practical environmental analysis This unique book provides detailed instructions for practical experiments in environmental analysis The comprehensive coverage includes the chemical analysis of important pollutants in air water soil and plant tissue and the experiments generally require only basic laboratory equipment and instrumentation The content is supported by theoretical material explaining amongst other concepts the principles behind each method and the importance of various pollutants Also included are suggestions for projects and worked examples Appendices cover environmental standards practical safety and laboratory practice Building on the foundations laid by the highly acclaimed first edition this new edition has been revised and updated to include information on new monitoring techniques the Air Quality Index internet resources and professional ethics Like its predecessor this informative text is certain to be valued as an indispensable guide to practical environmental analysis by students on a variety of science courses and their lecturers Reviews of the first edition I strongly urge academics in chemistry biology botany soil science geography and environmental science departments to give this book serious consideration as a course text Malcolm Cresser Environment Department University of York UK Destined to become a course text for many university courses a high quality informative introductory text there should be multiple copies on most university s library shelves Environmental Conservation **The Baccalaureate** Graham Phillips, Tim Pound, 2003-12-16 Every year the UK A Level results bring with them the inevitable tide of questions about the quality and standard of the exams Are they getting easier Is studying for three or four subjects in great detail right in the modern world Can standards and pass rates be sustained One option already available to schools and students is the baccalaureate system With reform of

the gold standard A level likely and with qualification reform in Wales and Scotland already a reality this unique book will be essential reading for anyone who needs to know about the post 16 qualifications debate Covering national and international approaches the IBO curriculum reform and political and educational imperatives the book including expert contributions by the leading figures in the bac debate from the HE state and independent schools sectors as well as from political and research fields

*Essays in Ink Chemistry* Joy T. Kunjappu, 2001 Contents Preface The complex world of ink chemistry Surfactants in ink chemistry Polymers in ink chemistry Polymer surfactant interactions in ink chemistry The emergence of polyacrylates in ink chemistry Pigments in inks Yes we have a foaming problem Thermochromism in ink chemistry Fluorescence in inks The fascinating world of colours Basics of colloids for ink chemists Laser the wonder light Molecular thinking in ink chemistry Photochemistry in UV light cured inks Radiation chemistry in electron beam cured inks Index

Chemical History Gerrylyn K Roberts, Colin A Russell, 2007-10-31 This book provides an historical overview of the recent developments in the history of diverse fields within chemistry It follows on from *Recent Developments in the History of Chemistry* a volume published in 1985 Covering chiefly the last 20 years the primary aim of *Chemical History Reviews of the Recent Literature* is to familiarise newcomers to the history of chemistry with some of the more important developments in the field Starting with a general introduction and look at the early history of chemistry subsequent chapters go on to investigate the traditional areas of chemistry physical organic inorganic alongside analytical chemistry physical organic chemistry medical chemistry and biochemistry and instruments and apparatus Topics such as industrial chemistry and chemistry in national contexts whilst not featuring as separate chapters are woven throughout the content Each chapter is written by experts and is extensively referenced to the international chemical literature *Chemical History Reviews of the Recent Literature* is also ideal for chemists who wish to become familiar with historical aspects of their work In addition it will appeal to a wider audience interested in the history of chemistry as it draws together historical materials that are widely scattered throughout the chemical literature

**Essay Writing Made Easy** Stephen McLaren, 2004-10

**New Trends in**

**Chemistry Teaching** Edward Cartmell, 1973

**Socioculturally Responsive Assessment** Randy E. Bennett, Linda Darling-Hammond, Aneesha Badrinarayan, 2025-05-01 *Socioculturally Responsive Assessment* assembles the best available thinking from within and outside the educational measurement community about the theoretical foundations and systems level policy implications of formal assessment programs designed to be socioculturally responsive Synthesized from culturally responsive assessment design and practices culturally relevant pedagogy and funds of knowledge universal design for learning the learning sciences and other literatures this emerging concept affirms that students learning and performance is inextricably tied to the social cultural and linguistic contexts in which they live and develop knowledge Across four sections this book provides an argument and initial evidence for impact on students users and assessment quality offers guidance for implementation and examines the potential limitations pitfalls barriers and measurement issues that such programs will

inevitably raise Scholars teaching faculty test developers and policymakers will come away with integral foundations new assessment approaches and a greater sense of the potential for positive impact that these assessments may afford     A *dictionary of the English and German languages* Josef Leonhard Hilpert,1845     German and English Joseph Leonhard Hilpert,1846     A Dictionary of the English and German, and the German and English Language: German and English Joseph Leonhard Hilpert,1846     A Dictionary of the English and German, and the German and the English Language Joseph Leonhard Hilpert,1857     *Englisch-deutsches und deutsch-englisches Wörterbuch* Joseph Leonhard Hilpert,1845

**Dictionary of the English and German, and the German and English Language** Joseph Leonhard Hilpert,1857

*Simon & Schuster Handbook for Writers* Lynn Quitman Troyka,Ann B. Dobie,Emily R. Gordon,1993     **Boston Journal of Chemistry and Pharmacy** ,1890     **Englisch-Deutsches und Deutsch-Englisches Wörterbuch** Josef Leonhard Hilpert,1845     *The Popular Science News and Boston Journal of Chemistry* ,1883     The Strange World of Quantum Mechanics Daniel F. Styer,2000-02-24 An exceptionally accessible accurate and non technical introduction to the core concepts of quantum mechanics     **Industrial & Engineering Chemistry** ,1923

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