

CHEMISTRY EXTENDED ESSAY

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

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.

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.

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