

Extended Essay in Chemistry

Checklist

Research Question

- _____ Is your research question stated in the form of a question?
- _____ Is your research question focused around a small number of variables?
- _____ Did you formulate your research question into a hypothesis?
- _____ Can you go into a great amount of depth for your topic? (your topic isn't too broad or complex)
- _____ Your topic is not already well known and documented in standard textbooks.

Abstract

- _____ Does your ABSTRACT have your research question, scope of the essay (theme) and the conclusion (your thesis statement)?
- _____ Does your ABSTRACT include a short description of how the research was conducted? (description of the methodology and scope of the study)
- _____ Is your ABSTRACT under the 300 word limit?

Table of Contents

- _____ Did you include an accurate TABLE OF CONTENTS?

Introduction

- _____ Is your research question clearly and exactly focused, and stated in both your abstract and introduction?
- _____ Does your introduction explain the significance and context of your topic?
- _____ Does your introduction explain why your topic is worthy of investigation?
- _____ Does your introduction explain how the research question relates to existing knowledge?
- _____ Did you correctly APPLY your research question to the field of chemistry? (experimental design)

Investigation

- _____ Do you have a reasoned and convincing argument in relation to your research question?
- _____ Does your essay contain arguments / interpretations based on scientific data?
- _____ If you used data taken from written sources did you clearly explain how the data was selected and about its reliability? Did you use primary sources?
- _____ If you used data based on your own experimental work did you clearly explain how the data was selected and about its reliability?
- _____ Did you present your analyzed and processed data so it relates directly to your research question? (No raw data shown in this section)
- _____ Did you include sufficient information on your experimental methodology? Did you provide enough information for someone to easily repeat your experimental work?
- _____ Did you justify your method approach and not simply report it?
- _____ Did you explain the theory behind any techniques or apparatus used?
- _____ Did you include awareness of any limitations or uncertainties inherent in your techniques or apparatus?
- _____ Did you include awareness of any limitations or uncertainties inherent in your techniques or apparatus?

- _____ You only used diagrams to enhance your argument. All diagrams are labeled.
- _____ Did you run a spell/grammar check and make corrections?

Reasoned Argument

- _____ Your essay provides a backbone for a reasonable argument.
- _____ Did you compare different approaches and methods that are directly relevant to the research question?
- _____ You did not write a straightforward descriptive or narrative account without any analysis.

References

- _____ Do you have appropriate primary sources? Did you reference them correctly?
- _____ Do you have extensive source references? (footnotes, endnotes, or in-text)
- _____ Have you given references for all of your sources and not plagiarized?
- _____ If you used websites are you sure of their reliability?
- _____ Did you reference all illustrations, diagrams, or drawings used from other sources?
- _____ You didn't use Wikipedia as a source.

Conclusion

- _____ Are all your conclusions based on the data, information and/or evidence?
- _____ Does your conclusion relate directly to the research question?
- _____ Does your conclusion point out and explain any unexpected outcomes?
- _____ Does your conclusion answer your research question? If not, did you point out any unresolved issues?
- _____ Does your conclusion include suggestions about further investigations that could be conducted on your research?

Appendix

- _____ Did you include data tables of raw data?
- _____ Does not include processed data that is central to your argument.

Works Cited / Bibliography

- _____ Do you have *at least* ten sources in your works cited page?
- _____ Are your sources in alpha-order?
- _____ Do you have a variety of sources, i.e. websites, journals, primary sources, secondary sources, etc.?
- _____ Are all your internet sources cited correctly according to your manual of style?
- _____ Do each of your sources have the author, title of publication, place of publication, publisher & date of publication?

Formal Presentation

- _____ Title Page w/ word count? (Title, name and candidate number, date, word count)
- _____ Table of Contents?
- _____ Page numbers?
- _____ Appendices (if appropriate)?
- _____ Under 4000 words and over 3000 words?

Holistic Judgement

- _____ Have you met with your supervisor on a continual basis?
- _____ Has your supervisor seen your rough drafts and given appropriate feedback?

_____ Did you save your EE on at least three secure places (hard drive, flash-drive, email, external sites, etc.)?