

What is the effect of the one independent variable X on the one dependent variable Y with these important controlled variables?

Claim

A is B.

Rationale

KEY: **All** the essay needs to be written in **PEE paragraphs** to be clear, **fluent and concise** that have a topic sentence giving the point of the paragraph **as the first sentence**. Then the evidence (data and Chemistry theory) to be **informed/justified/thorough** with explanation that will allow you to be **insightful/considered/critical**. (Highlights are direct words from your ISMG!)

Paragraph 1:

- Point – State how A is related to X. “In the claim the term A will be specified to X.”
- Evidence – Background (Figure 1 or in text reference) or other research (in text reference).
- Explain – Link the evidence to the point. Use the evidence to explain why X was chosen.

Figure 1: Chemical structures, chemical formulas etc. (in text reference) – continue as necessary.

Paragraph 2:

- Point – State how B is related to Y...
- Evidence
- Explain

Paragraph 3: Continue writing paragraphs until your RQ is fully explained.

Research Question

What is the effect of X on Y with controls?

Analysis and Interpretation

Paragraph 1:

- Point – State the trend, pattern or relationship between X and Y.
- Evidence – Refer to dataset 1 (Figure 2).
- Explain – interpret the evidence to match the point. Use both data justifications as well as Chemistry structures/theory from the units in your syllabus. Justify results on the level of chemical structures and bonding and any other theory from your syllabus.

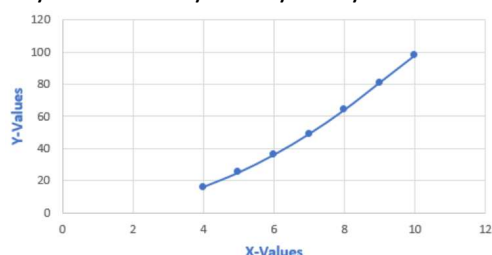


Figure 2: Label dataset 1 (in text reference).

Paragraph 2:

- Point – State the trend, pattern or relationship between X and Y.
- Evidence – Refer to dataset 2 (Figure 3).
- Explain – interpret the evidence to match the point. Use both data justifications as well as Chemistry structures/theory from the units in your syllabus. Justify results on the level of chemical structures and bonding and any other theory from your syllabus.

Figure 3: Label dataset 2 (in text reference).

Paragraph 3:

- Point – State the trend, pattern or relationship between X and Y.

- b. Evidence – Refer to dataset 3 (Figure 4).
- c. Explain – interpret the evidence to match the point. Use both data justifications as well as Chemistry structures/theory from the units in your syllabus. Justify results on the level of chemical structures and bonding and any other theory from your syllabus.

Figure 4: Label dataset 3 (in text reference).

Conclusion and Evaluation

Paragraph 1:

- a. Point – State the first most significant limitation – eg. differences in experimental procedures, data range/repetition, any other differences
- b. Evidence – Refer to datasets
- c. Explain – Suggest detailed improvements and extensions resulting from this discussion

Paragraph 2:

- a. Point – State the second most significant limitation – eg. differences in experimental procedures, data range/repetition, any other differences
- b. Evidence – Refer to datasets
- c. Explain – Suggest detailed improvements and extensions resulting from this discussion

Paragraph 3:

- a. Point – State the third most significant limitation – eg. differences in experimental procedures, data range/repetition, any other differences
- b. Evidence – Refer to datasets
- c. Explain – Suggest detailed improvements and extensions resulting from this discussion

Final Paragraph:

- a. Point – State how accurate/correct the question is.
- b. Evidence – Highlight the significant points in the report for this conclusion including key data.
- c. Explain – Extrapolating sentence stating if the claim is supported or not by the conclusion of the question.

Word count: (1500 to 2000)

References

Full references in alphabetical order. Use of recent journals throughout.