Abstract

The problem, Questions asked, Objectives set, Conclusions made, and Recommendations for a way forward.

Research Question

Include why important, Require a thoughtful research plan, and Area of scientific interest. Include a well-written description of background information, Provide significant insight into both the topic of investigation and the research process, and Answering them requires an advanced understanding of the subject matter.

Hypothesis

Proposes a possible explanation to a phenomenon or problem, and Defines how it is testable and Measureable.

Investigation Plan

A clear and complete investigation plan is present that includes A description of a student-led research process, and Lists the steps to complete project. Clearly outlines the steps to complete project, and Describes the collaboration process.

Research Methods

Full advantage is taken of a combination of GLOBE protocols, and:
• there is a direct link provided between the datasets and research question(s), and
• the scope of research is fully detailed, including how the data were analyzed (e.g. time period, geographic area, or specific sites involved).

GLOBE Data

GLOBE data use includes all GLOBE data that were collected, and:
• GLOBE data are entered into the GLOBE database.
• Data from other GLOBE school(s) are included in the project.
• All sources of data not collected by submitting group are cited.

Data Summary

Tables and/or graphical representations of data are present, including: Maps, Time series plots, or Other visualizations of the data that:
• Display enough of the data to support the conclusion
• Provide comparisons between data
• Data are orderly, well labeled, and easy to interpret.
• Data are of high quality, well presented, and enable the reader to easily grasp the key points of the paper.

Conclusions

The conclusion is supported by the data. A thoughtful conclusion is present gives a thorough and insightful explanation as to how the conclusion was reached, and recommends future research.

Limitations/ Sources of Error

A clear, complete and insightful discussion of the limitations of the methods used is present and a description is provided explaining the significance of these analyses.

Bibliography

Materials used are cited completely and correctly, including any graphics, tables, or figures not created by students.