

Review of: "Influence of Meta-cognition, Self-efficacy, and Self-regulated Learning on Students' Achievement in Biology in Ibadan, Nigeria"

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Potential competing interests: No potential competing interests to declare.

After a thorough evaluation, the paper requires substantial revisions to align with the standards for publication in our journal. Failure to address the following issues may lead to rejection:

Introduction:

- Inadequate depth in exploring the background literature on meta-cognition, self-efficacy, and self-regulated learning.
- Lack of clarity in defining the research gap the study aims to address.
- Insufficient integration of recent literature to enhance relevance in the current educational context.

Research Problem:

- Lack of additional details on reported poor performance in biology, specifically referencing the May/June chief examiners' report.
- Insufficient justification for selecting meta-cognition, self-efficacy, and self-regulated strategies as focal constructs and explaining their relevance to the identified problem.

Research Aims and Questions:

- Lack of clear articulation of the overall goal of the study and how its achievement contributes to national development.
- Lack of alignment between each research question and its corresponding research aim.

Hypotheses:

- Lack of clear direction for each hypothesis (positive or negative influence).
- Testability and direct alignment with stated research questions are not ensured for each hypothesis.

Research Methodology:

- Insufficient details on the sampling process, including the rationale for selecting specific schools.
- Lack of clarification on how the survey instrument ensures the capture of necessary information on meta-cognition, self-efficacy, and self-regulated strategies.
- Absence of a brief rationale for the choice of specific statistical analyses for each research question and hypothesis.

Data Analysis and Results:

- Lack of clarity in presenting the findings for each research question and hypothesis.
- Complexity and lack of straightforward language in explaining the statistical analyses.
- Insufficient interpretation of the results and discussion of their implications for the study.

Conclusion:

- Inadequate summarization of key findings.
- Lack of discussion on the broader implications of the study for educational practice and policy.
- Failure to suggest areas for future research based on identified limitations.

To be considered for publication, please address these issues comprehensively in a revised version of the manuscript.