

# Review of: "Effects of Teachers' Professional Development on Students' Academic Achievement"

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**Potential competing interests:** No potential competing interests to declare.

Thanks for providing a chance to review this article. It is well written and interesting document but still some amendments are required to improve the quality and impact of this work, which are as follows:

## Abstract

- Recheck the design of study and write is correctly.
- Recheck this sentence in abstract "to test the hypotheses generated using schools that participated in the workshop and agreed to participate in the study".
- Recheck instruments (Students' achievement scores before and after the workshop attendance were used as instruments.) either these will be researcher' developed tests or students' achievement scores.

## Introduction

- Follow APA 7th format or journal team' suggested format to ensure uniformity in citations and references styles.
- Too much short paragraphs may be merged with the previous or next one based on their relevancy.
- Introduction may be shorten and a separate section of literature review may be written prior to the heading "Research Design" (as most of the journals demand these **FIVE** sections in an article: i) Introduction, ii) Literature Review, iii) Research Methodology, iv) Data Analysis and Interpretation, v) Findings, Conclusions and Recommendations).

## Sample and Sampling Technique

- Prior to the heading "Sample and Sampling Technique" researcher is required to write about the number of participants (teacher and students) who constituted the population of the study.
- These two sentences "To select the experimental sample for the evaluation, the researcher first secured access to the list of all teachers who participated in the workshop in Oyo State. It should be noted that the researcher was not involved in choosing the teachers who participated in the workshop." are contradicting.

Researcher is required to clarify the sample selection process, if research was not involved then who did this for him.

- This sentence needs further clarification "In total, there were 38 pairs of treatment and control groups with a total of 2886 students (1468 and 1418 students in the experimental and control groups, respectively)."

From these total you selected specific sample or this is the number of sampled participants. And if it is the number of sampled participants then mention clearly that how researcher managed to collect data from these large groups and how much time this study took to get complete.

### **Instrumentation and Method of Data Collection**

Researcher is required to mention about process of experimentation, i.e. duration of experiment, year/session, grade, gap between the conduction of pre-test and post-test etc. Also mention that how threats to internal and external validity were controlled.

### **Data Analysis**

- In this sentence "To be able to make meaningful deductions, " instead of deductions use any other suitable word i.e. conclusions, interpretations, or so on.
- Instead of writing that " we accept the null hypothesis." and "we reject the null hypothesis," paraphrase these results as "researcher fail to reject the null hypothesis" and "researcher fail to accept the null hypothesis".

### **Discussion of Findings**

In third paragraph (line 6) recheck this sentence "whichwho found that students' academic achievement increased".

### **Recommendations**

Do you think, these words "Among other recommendations", need to be written here. These may be skipped, as sentence coming later " the following ones were made in light of the study's findings:" is clearly reflecting your purpose.