

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

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

This is an interesting topic and one that needs to be aired. The teaching of mathematics is essential as young students grow up in this quantitative world.

I was interested to read about the 4 steps theory foundation, which seems to have some similarities with the Learning Cycle by Kolb. It would be valuable to acknowledge the Kolb Learning Cycle or something similar which would have given greater foundation to your theory. I was surprised to deduce that Continuing Professional Development (CPD) was not mandatory for teachers in the countries involved, but the author should have drawn on the experience of mandatory CPD as a comparison. With this in mind I was equally surprised that the authors did not consider this as a recommendation.

You need to be consistent in spelling e.g. programs & programmes; they are either the experiment group or test group but not I think treatment group.

Did you actually do a sample size calculation? If so please show it and report on whether the sample size was achieved. If not the sentence "It is believed that whatever findings....." cannot be stated.

How were results calculated? What software programmes were used?

Did the study take place in the Caribbean as well as in Africa as the title suggests? If so some reference to the results in the Caribbean would be helpful.