

Review of: "Augmented Reality (AR) Technology on Student Engagement: An Experimental Research Study"

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Potential competing interests: No potential competing interests to declare.

Review and Comments to the Author

This study hypothesizes that the use of AR technology will enhance student engagement and lead to improved learning outcomes. A sample of participants from a local high school will be involved in this research. The research employs a pre-test/post-test design to assess the impact of AR technology on student engagement and learning outcomes.

In my opinion, I feel that there are still many points in this manuscript that need to be further clarified and revised. Thus, I would recommend the author review my comments below and revise the manuscript carefully.

Minor

- 1) Please provide more specific parameters and pictures of AR technology in this study.
- 2) Please provide further clarity on how to randomly assign different students to different groups.
- 3) Please be clear about the difficulty and duration of the course.
- 4) The questionnaire does not need to be provided in the main text and can be placed in the appendix.
- 5) Table 1 and Table 2 can be placed on the same table for better visual comparison. The same goes for Tables 3 and 4.
- 6) 'Discussions' should be replaced by 'Discussion'.

Major

- 1) Before starting the experiment, in the Introduction, the author should expand on the specific findings on the effectiveness of AR technology in teaching scenarios, and then what problems need to be further solved. This means that the research background is insufficient and the research questions are not specific and clear.
- 2) The results should be divided into two parts: descriptive statistics and inferential statistics. The eight steps provided by the author are the specific analysis process rather than the presentation of key results.

- 3) There is no comparison and further explanation with previous literature results in the Discussion section.