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Manuscript No.: IJAR-56367

Title: VIRTUAL LABORATORY ASSISTED INSTRUCTION ON GRADE STUDENTS'PERFORMANCE AND INTEREST IN SCIENCEVIRTUAL LABORATORY ASSISTED INSTRUCTION ON GRADE STUDENTS'PERFORMANCE AND INTEREST IN SCIENCE

Recommendation:

Accept as it is .....

Accept after minor revision.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality	✓			
Clarity		✓		
Significance	✓			

Reviewer's Comment for Publication:

The virtual laboratory activities on students' performance in science."Hands-on laboratory experiences" refer to practical, interactive activities in a science lab where students physically engage with materials, equipment, and experiments. Instead of just learning theory or watching demonstrations, students actively perform experiments themselves—measuring, mixing, observing, and testing scientific phenomena. Hands-on labs are considered essential in science education for making abstract ideas concrete and promoting meaningful learning. the strength of VLAI in fostering positive attitudes toward science learning. The interactive feature. the limited number of laptops available for virtual laboratory activities, which reduced some students' direct engagement and may have impacted the effectiveness of the intervention.

.**Recommendation:** Accept after minor revision,

Detailed Reviewer's Report

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STRENGTHS:

1- This study focused on examining the effects of virtual laboratory activities on students' performance in science.
2- This study examines the influence of a specific teaching strategy, treated as the independent variable, on several learning outcomes
3- the study provides a comprehensive understanding of the effects of VLAI on both performance and interest.
4- The study supports constructivist approaches by showing how virtual labs allow students to actively engage
5- The participants of this study consisted of matched pairs of Grade 7 students from two intact sections of MSU–Baloi Community High School.
6- Virtual Laboratory–Assisted Instruction is an effective instructional approach for enhancing students' interest in science.
7- This study employed both quantitative and qualitative research methods

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WEAKNESSES:

1- The study involved only 34 matched pairs of Grade 7 students from a single school and was confined to one grading period
2- In this study Limited Access to Technology and technical instruments.
3- It encompasses how lessons are organized, presented, and how students engage with the material.

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