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## #25354 Summary

SUMMARY REVIEW EDITING

### Submission

Authors	Jitu Halomoan Lumbantoruan, Risma Uly Manalu
Title	Effectiveness of learning mathematics derivative materials using modules equipped with cooperative models in high schools
Original file	<a href="#">25354-50257-1-SM.DOC</a> 2022-09-02
Supp. files	<a href="#">25354-50258-1-SP.PDF</a> 2022-09-02
Submitter	Jitu Halomoan Lumbantoruan
Date submitted	September 2, 2022 - 08:17 AM
Section	Pedagogy
Editor	Rafael Denadai (Review) Lena Lindenskov, Ph.D. (Review) Maja Ljubetic, Ph.D. (Review) Asghar Soltani, Ph.D. (Review)
Author comments	Good afternoon and good health. To the honorable manager of the journal, Dr. Una Handayani, Previously, let

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Original file [25354-50267-1-SM.DOC](#) 2022-09-02  
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Submitter Jitu Halomoan Lumbantoruan  
Date submitted September 2, 2022 - 08:17 AM  
Section Pedagogy  
Editor Rafael Denadal (Review)  
Lena Lindenskov, Ph.D. (Review)  
Maja Ljubetic, Ph.D. (Review)  
Asghar Soltani, Ph.D. (Review)

Author comments

Good afternoon and good health. To the honorable manager of the journal, Dr. Lina Handayani. Previously, let me introduce myself named Jitu Halomoan Lumbantoruan. Please allow me to inform you that one of our articles has been submitted to our account in the journal that you manage. If our article is in accordance with the scope of the journal that you manage. As a note, this article is the result of our research entitled "Effectiveness of Learning Mathematics Derivative Materials with the Help of Modules Equipped with Cooperative Models in High Schools". We find and produce a mathematical module product derived material "as a tool or approach" in the mathematics learning process, especially in derived material and through development research. We hope that the articles from the results of this study can be accepted and processed further to the reviewer stage. We hope that the publication of this article in the journal that you manage will have a positive impact on learning mathematics in the future. Thanks

Jitu Halomoan Lumbantoruan

Abstract Views 84

Status

Status Published Vol 13, No 1: February 2024  
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Submission Metadata

Authors

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ORCID ID [http://orcid.org/0009-0002-0100-7464](#)

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## Submission Metadata

### Authors

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Affiliation Universitas Kristen Indonesia  
Country Indonesia  
Bio Statement —

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### Title and Abstract

**Title** Effectiveness of learning mathematics derivative materials using modules equipped with cooperative models in high schools

**Abstract** The aim of the research is to improve the learning outcomes of mathematics material in high schools. At the high school level, there are three materials that are difficult for students to understand, one of which is derivative material. In fact, student learning outcomes in low-derived material. Difficulties arise because teachers rarely write teaching modules. There is difficulty understanding the definition (71.42%), concepts (71.42%), principles (57.14%), and skills (42.85%). In the needs analysis, 90% of students had difficulty with derivative material and the teacher was of the opinion that 85% of students had low scores on derived material. The research used research and development (R&D) method. The stages of research are needs analysis, design, development, implementation, and evaluation. As a result, the validation of material experts is 91.72%, math teachers are 92.42%, and students are 95.90%, all three are categorized as very good. Students who do not use the module get an average score of 65.51, and students who are assisted by the module get an average score of 87.20. In conclusion, there is a significant difference between using a module and not using a module of 21.69. The research interprets the developed modules to significantly improve student learning outcomes.

### Indexing

**Keywords** Cooperative learning; Derived material; Effectiveness; High school; Mathematics module; Practicality

**Language** en

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### Supporting Agencies

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### References

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## #25354 Review

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### Submission

Authors: Jitu Halomoan Lumbantoruan, Risma Uly Manalu  
Title: Effectiveness of learning mathematics derivative materials using modules equipped with cooperative models in high schools  
Section: Pedagogy  
Editor: Rafael Denadai (Review), Lena Lindenskov, Ph.D. (Review), Maja Ljubetic, Ph.D. (Review), Asghar Soltani, Ph.D. (Review)

### Peer Review

#### Round 1

Review Version: 25354\_50269\_1.RV.DOC 2022-09-02

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Editor Rafael Denadai (Review)  
Lena Lindenskov, Ph.D. (Review)  
Maja Ljubetic, Ph.D. (Review)  
Asghar Soltani, Ph.D. (Review)

### Peer Review

#### Round 1

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Notify Editor Editor/Author Email Record 2023-03-15  
Editor Version None  
Author Version [25354-53515-1-ED.DOCX](#) 2023-03-29 [DELETE](#)  
[25354-53515-2-ED.PDF](#) 2023-03-29 [DELETE](#)  
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**Editor** Rafael Denadal (Review)  
Lena Lindenskov, Ph.D. (Review)  
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Supplementary Files

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Layout Comments No Comments

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