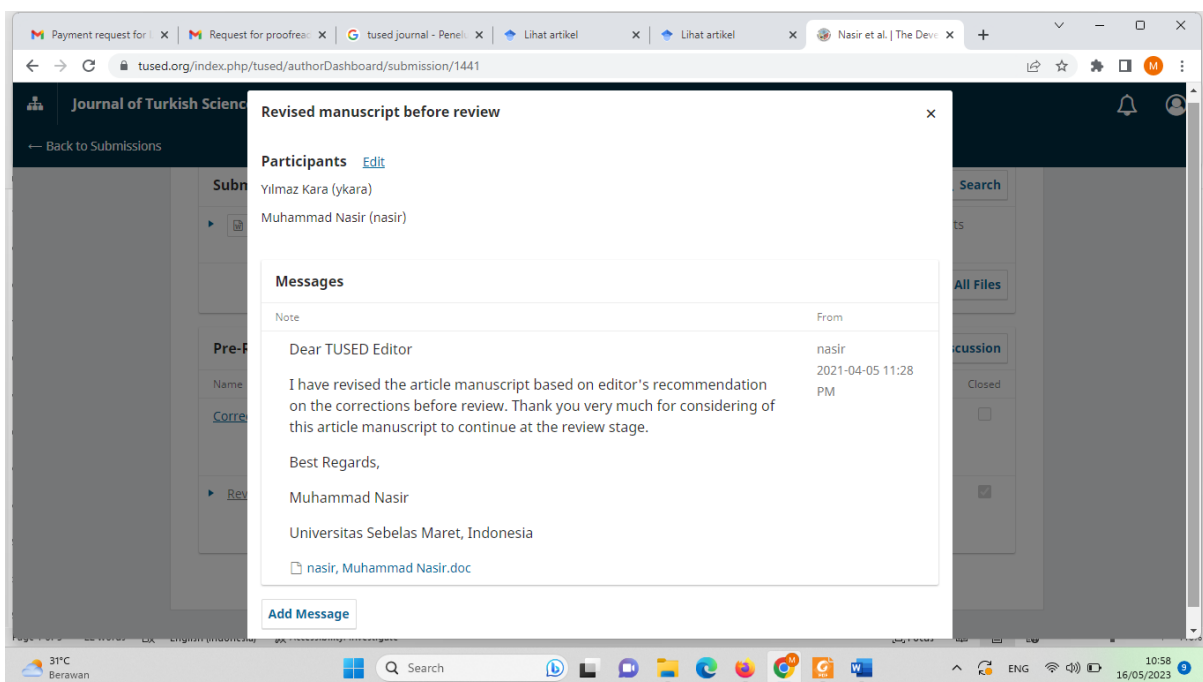
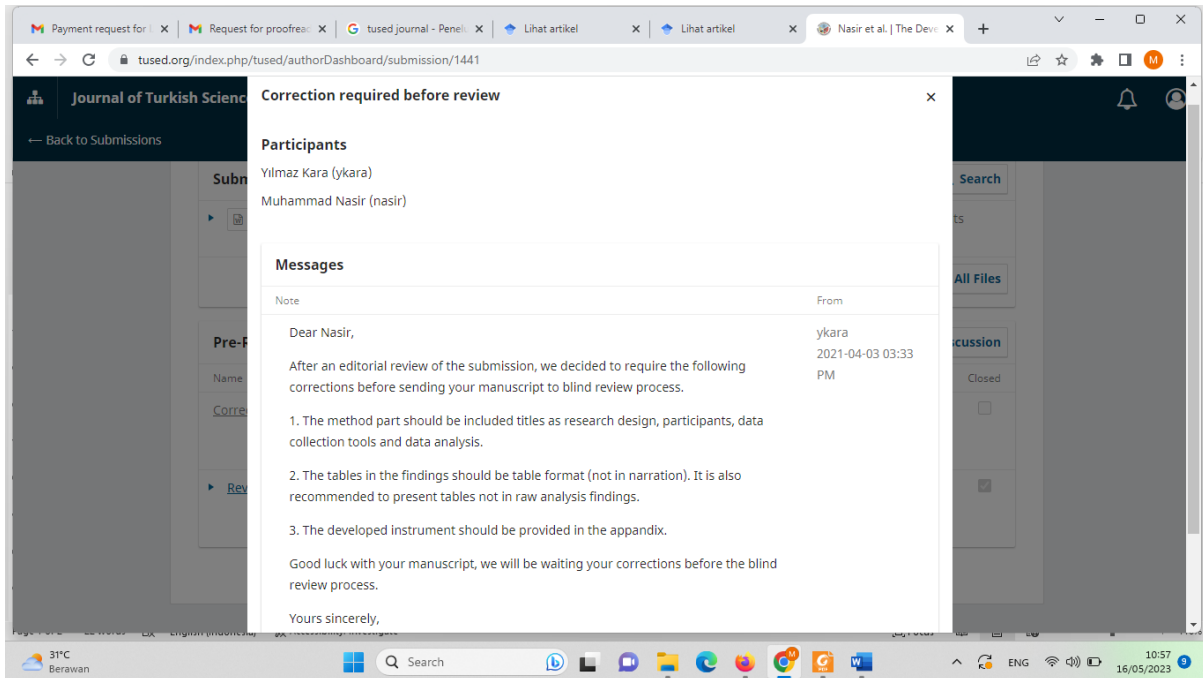


Bukti Korespondensi Journal of Turkish Science Education (TUSED)

Judul Artikel: The Development of a Two-Tier Diagnostic Test for Student Understanding of Light.



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Journal of Turkish Science Education

Back to Submissions

Round Submissions

Notifications

[tused] Editor Decision

2022-11-20 06:48 PM

Muhammad Nasir, Cari, Widha Sunarno, Fitriah Rahmawati:

We have reached a decision regarding your submission to Journal of Turkish Science Education, "The Development of Two-Tier Light Concept Test to Identify Student Concept Understanding Trend".

Our decision is: Revisions Required

Reviewer A:

There is no novelty in this paper. The authors fail to explain why the Two-Tier Light Concept Test needed to develop, and the developed test is only one tier, multiple-choice with a confidence level question. The research gap is also unclear. This paper needs an improvement in the introduction and literature review. The participant is only 81 students from the second semester of 5 universities in Indonesia using cluster sampling method

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Round Submissions

Notifications

Reviewer A:

There is no novelty in this paper. The authors fail to explain why the Two-Tier Light Concept Test needed to develop, and the developed test is only one tier, multiple-choice with a confidence level question. The research gap is also unclear. This paper needs an improvement in the introduction and literature review. The participant is only 81 students from the second semester of 5 universities in Indonesia using cluster sampling method whereby no explanation for what kind of cluster with the small sample targeted only the students in the second semester, which is no information group-level and group comparison. The data analysis is old (out of date, 1999) in part of CRI. The biggest problem is in part of the percentage category of misconceptions, where are these criteria come from no citations. However, the authors state using IRT where logit value of person (LVP) can be used to categorize for proper analysis. Please type in google how to use the logit value of persons (LVP) and the logit value of items (LVI). Because of sampling mistakes, too small for the population. We can see the low person reliability (0.38), which is unacceptable. The criteria fallacy can be seen in Table 6 and Table 7 because the criteria in IRT and Rasch can be made based on Mean, +SD, and -SD. Table 6 and Table 7 are completely wrong. I cannot figure out how the author categorizes Table 8 and Table 9 while there are no citations for checking the method. In the discussion, the authors stated, "The cause of students' misconceptions in this study was that some students had not yet learned the concept being asked, so they answered with prior knowledge". This statement is impossible because the target sampling is students at the university level while the content of misconception is only in junior and senior high school. The authors also fail to explain why students suffer misconceptions in Light Concept for some parts. The conclusion is not mentioning the low person/case reliability. The conclusion should sum up the result, explain limitations, and give recommendations. Finally, please revise the English writing or do proofreading using Microsoft word or Grammarly before submitting the manuscript to the Journal

I hope the review can improve the manuscript quality in future work.

I recommend rejecting this manuscript to include in the TUSED journal.

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Reviewer B:

This article has potential to make contribution to science education. However, when we look at the introduction part especially, end of the introduction part, what will be contribution of this manuscript to the existing literature is not clear. Especially, what has been well known and what are the needs of this literature should be well documented. This has not achieved yet. A substancial amount of extra literature are needed.

Aims and research questions should be added after introduction part.

Results part should be organized under research questions.

In method part only quantitative parts and data collections are mentioned. There are not any information abasot interview s and their implenation ana analysis. Much more detail information should be given about these issues.

Discussion and conclusion parts seems too weaks. Some spesific discussions based on the spesific research results should be done by using some cross-referencess.

There is not any aplicabile recommendation for practitioners and reserchers.

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Discussion and conclusion parts seems too weaks. Some spesific discussions based on the spesific research results should be done by using some cross-referencess.

There is not any aplicabile recommendation for practitioners and reserchers.

Recommendation: Revisions Required

Reviewer C:

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Journal of Turkish Science
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Reviewer C:

Dear Editor and Author(s)

Even though item difficulty analyses were applied; the researchers chose Item Response Theory. Although the content of the study is not fully original, the organisation of the paper is good. Due to this reason I accepted the publication of paper.

Researchers stated that "Another study by Prodjosantoso & Irwanto (2019) also examined the identification of misconceptions only as a category of student misconceptions, namely the high, medium, and low categories. In this study, researchers not only measured the trend of student understanding but began with the development of a light concept diagnostic instrument using item response theory (IRT), analyzing trends in students' understanding of the concept of light, and inventory the types of students' misconceptions on the concept of light. Besides, the diagnostic instrument for understanding the concept of light in this study has special characteristics to diagnose the initial knowledge of the concept of light as a prerequisite concept for studying fiber optic material. ". They should focus on why they chose IRT more. They should explain in a wide manner.

They should also control simple references' errors. I.e.

Brown, D. E., & Clement, J. (1991). Overcoming misconceptions via analogical reasoning: Factors influencing understanding in a teaching experiment. *Instructional Science*, 18, 237-261. (Italics)

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Brown, D. E., & Clement, J. (1991). Overcoming misconceptions via analogical reasoning: Factors influencing understanding in a teaching experiment. *Instructional Science*, 18, 237-261. (Italics)

Jusniar, J., Effendy, E., Budiasih, E., & Sutrisno, S. (2021). Eliminating misconceptions on reaction rate to enhance conceptual understanding of chemical equilibrium using EMBE-R Strategy. *International Journal of Instruction*, 14(1). (page numbers)

Şenol, Ş. E. N., & YILMAZ, A. (2017). The development of a three-tier chemical bonding concept test. *Journal of Turkish Science Education*, 14(1), 110-126. (Yılmaz)

Recommendation: Accept Submission

Journal of Turkish Science Education

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Journal of Turkish Science Education

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Revisions

7951 Article 1441_no track and change.doc January 4, 2023 Research Results

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Review Discussions

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Name	From	Last Reply	Replies	Closed
Article Manuscript Revision	nasir	-	0	<input type="checkbox"/>
Answer form to Reviewer	nasir	-	0	<input type="checkbox"/>
Article 1441_no track and change	nasir	-	0	<input type="checkbox"/>

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Journal of Turkish Science Education

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Messages

Note	From
<p>Dear Author;</p> <p>Your manuscript which you submitted to TUSED, has been reviewed.</p> <p>We are pleased to announce that your article is accepted. At this stage, there are two aspects required from you:</p> <ol style="list-style-type: none"> 1) You should make sure you do proof-reading effectively in order to produce a quality publication in TUSED. You must do proofreading and editing on OrEgDa (https://www.oregda.com/). Please, while sending your article, you indicate that you sent this article on TUSED. Then, you must show us a document which was done proofreading and editing. 2) Editorial board suggested that you include more references benefiting from articles published in TUSED for the last two-three years. So, you should look at articles published before. <p>Thank you for submitting your manuscript to the journal of Turkish Science Education. The Editors of the Journal of Turkish Science Education look forward to your continued contributions to the Journal.</p>	uormand 2023-02-10 10:28 AM

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Oregda Organizasyon Eğitim ve Danışmanlık <oregda@gmail.com> to me

Fri, Feb 10, 6:23 PM

Dear Dr. Nasir,

The proofreading and editing service in OrEgDa takes about three weeks after the coming fee.

Your article's fee: 450 dollars

If this is suitable for you, we continue the process.

Sincerely,
OrEgDa Team

Muhammad Nasir <muhammad_nasir@student.uns.ac.id>, 27 Oca 2023 Cum, 05:28 tarihinde şunu yazdı:

Muhammad Nasir

Yes, I Agree, please proceed. Thanks you. Best Regards,

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Oregda Organizasyon Eğitim ve Danışmanlık <oregda@gmail.com> to me

Fri, Feb 10, 9:27 PM

Dear Dr. Nasir,

You can send the fee as Eft. Bank charges belong to the sender. The required information is as follows:

The name of the bank: Halk Bank
Branch name: 360 Delikcınar / Denizli
Account holder: Sevinc Kacar
Account number: 53000772
Iban number: TR53 0001 2009 3600 0053 0007 72
SWIT Code: TRHBTR2A
Account Holder Street Address and City: 2040 street No:7 Pamukkale DENIZLI
Banka Adress: 15 Mayıs Mah. Gazi Mustafa Kemal Bulvarı No:145/A 20150 Pamukkale / Denizli

Sincerely,
OrEgDa Team

Muhammad Nasir <muhammad_nasir@student.uns.ac.id>, 10 Şub 2023 Cum, 17:06 tarihinde şunu yazdı:

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Oregda Organisasiyon Eğitim ve Danışmanlık <oregda@gmail.com> to me Mar 15, 2023, 3:09 PM

Dear Author;

The final version of your article is below. Thank you for choosing us.

Sincerely

Muhammad Nasir <muhammad_nasir@student.uns.ac.id>, 13 Şub 2023 Pzt, 10:48 tarihinde şunu yazdı:

One attachment • Scanned by Gmail

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Muhammad Nasir <muhammad_nasir@student.uns.ac.id> Mar 15, 2023, 2:26 PM

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Journal of Turkish Science

Back to Submissions

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Messages

Note	From
<p>Dear TUSED Editor Team</p> <p>Here I attach the results of proof reading articles from OREGDA. Thank you very much.</p> <p>Best Regards,</p> <p>Muhammad Nasir</p> <p>Universitas Sebelas Maret Indonesia</p> <p>Article 1441_no track and change_OREGDA.doc</p>	<p>nasir</p> <p>2023-03-16 10:02 AM</p>
<p>Dear Author;</p> <p>Your manuscript has been accepted after your fixes for publication in TUSED for future issues. For this, you will check your article and organize it (you can see the sample in the attachment) in 2 days.</p> <p>Sincerely</p> <p>TUSED+Template+(1)+(1).docx</p>	<p>uormanci</p> <p>2023-03-24 07:18 AM</p>

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Universitas Sebelas Maret Indonesia

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Dear Author;

Your manuscript has been accepted after your fixes for publication in TUSED for **future issues**. For this, you will check your article and organize it (**you can see the sample in the attachment**) in 2 days.

Sincerely

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Dear TUSED Editor Team

Here I attach the layout of the article numbered 1441. Thank you very much.

Sincerely

Muhammad Nasir

Universitas Sebelas Maret Indonesia

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Journal of Turkish Science

The Layout of article

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Ümmühan Ormancı (uormanci)

Vildan Bayar (vbayar)

Yılmaz Kara (ykara)

Muhammad Nasir (nasir)

Messages

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Dear TUSED Editor	nasir
Here I attach the layout of the article numbered 1441, thank you very much.	2023-03-25 12:38 AM
Sincerely	
Muhammad Nasir	
Universitas Sebelas Maret, Indonesia	
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