



Level of Implementation of the Fun Learning Teaching Method in Teaching and Learning at Preschool: Validity dan Reliability

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BACKGROUND

- The fun learning teaching method created an enjoyable teaching and learning environment (Norlela Ahmad & Shamsudin Othman, 2020).
- However, the study of Muhammad Fadhil Md Zain et al. (2021) showed that teaching and learning activities carried out by teachers are still traditional in nature where teachers read texts and questionnaire activities are often used because this way is more convenient compared to games, acting or singing activities.
- Teacher will guide and motivate children to be more enthusiastic and active both mentally and physically, thus creating a more effective learning experience (Zahara Mutia et al., 2018).

OBJECTIVES

This study has two objectives as follows:

- i. To determine the validity of the questionnaire on the level of implementation of the fun learning teaching method in teaching and learning at preschool based on expert approval.**
- ii. To determine the reliability of the questionnaire on the level of implementation of the fun learning teaching method in teaching and learning at preschool.**

METHODOLOGY

⚙️ VALIDITY: CONTENT VALIDITY

Content validity index (CVI) is widely used index in quantitative evaluation **to determine the relevancy of the scale**. There are 2 types of CVI: **I-CVI (item level)** and **S-CVI (scale level)**. Prior to the calculation of CVI, the scale is dichotomized by recoding all responses with 3 as 1 and all responses with 1 and 2 as zero. Where 1 means 'relevant' and 0 means 'not relevant'.

$I-CVI = \text{Experts in Agreement} / \text{Total No. of experts}$

$S-CVI = \text{The average of proportion relevance scores across all experts.}$

METHODOLOGY

⚙️ RELIABILITY : PILOT STUDY

Vasileiou et al. (2018) stated that the optimal sample size range in a pilot study is 15 to 30 respondents. A total of **30 preschool teachers** in the Bentong district, Pahang, were selected as the pilot study sample **to test the questionnaire's reliability**. A pilot study is conducted to determine the reliability of the study based on the Cronbach's Alpha value.

RESULT & DISCUSSION

No.	Item	Review
1.	The instrument format is suitable and attractive.	Interesting and suitable.
2.	Items measure the intended domains.	Items can measure the domain.
3.	The language used is easily understandable.	Understandable.
4.	Font size is appropriate and easy to read.	Appropriate.
5.	The meaning of each item is clear.	Clear.
6.	Sufficient number of items.	Sufficient items.
7.	Clear objectives.	Clear.
8.	Clear instructions.	Clear.
9.	Correct spelling.	Correct in terms of spelling.
Overall Review		Congratulations, you can proceed with the study.

Discussion:

The expert provided positive feedback, such as the questionnaire being acceptable, understandable and suitable.

Face validity

RESULT & DISCUSSION

Education for Sustainable
Development

Discussion:

The average results scale content validity index (S-CVI) of each expert review on the items ranged from 0.81 to 1.00, suggesting that no questions required repetition.

Section	Total item	S-CVI
Section B: Teacher's Knowledge in the Level of Implementation of the Fun Learning Teaching Method in Teaching and Learning at preschool	7	0.89
Section C: Teacher's Skill in the Level of Implementation of the Fun Learning Teaching Method in Teaching and Learning at preschool	7	0.81
Section D: Teacher's Attitude in the Level of Implementation of the Fun Learning Teaching Method in Teaching and Learning at preschool	7	0.91
Section E: Teacher's Implementation Level of Fun Learning Teaching Method in Preschool	7	1

Content validity

RESULT & DISCUSSION

Education for Sustainable
Development

Section	Total item	Cronbach's Alpha Score	Interpretation
Section B: Teacher's Knowledge in the Level of Implementation of the Fun Learning Teaching Method in Teaching and Learning at preschool	7	0.90	Excellent
Section C: Teacher's Skill in the Level of Implementation of the Fun Learning Teaching Method in Teaching and Learning at preschool	7	0.94	Excellent
Section D: Teacher's Attitude in the Level of Implementation of the Fun Learning Teaching Method in Teaching and Learning at preschool	7	0.93	Excellent
Section E: Teacher's Implementation Level of Fun Learning Teaching Method in Preschool	7	0.88	Good
Overall Cronbach's Alpha Value		0.87	Good

Discussion:

The Cronbach's Alpha for section B is 0.90, section C is 0.94, section D is 0.93 and section E is 0.88. This indicates that sections B, C, and D are excellent and effective. As for section E, it is good and acceptable. The overall Cronbach's Alpha value is 0.87, where all items are good and acceptable.

Pilot study

DISCUSSION

⚙️ PILOT STUDY

The results of the pilot test in this study indicate that the reliability index values fall between Cronbach's Alpha 0.88 (stability coefficient) to 0.94 (very good reliability/acceptable standardized test for internal consistency) and are still within the range of degrees of positive correlation (Frenkel and Wallen, 1996).

CONCLUSION

- The study found that the developed questionnaire achieved a high level of reliability (Cronbach's Alpha value = 0.87), all 28 items were suitable for use, and no items required modification.
- In conclusion, the questionnaire on the Level of Implementation of the Fun Learning Teaching Method in Teaching and Learning at the Preschool level has high validity and reliability and is well-suited for measuring each domain within the questionnaire.

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THANK YOU



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