



THE LEVEL OF TEACHER READINESS FOR THE IMPLEMENTATION OF 21ST CENTURY LEARNING ELEMENTS IN PRESCHOOL : VALIDITY AND RELIABILITY


Presented By:

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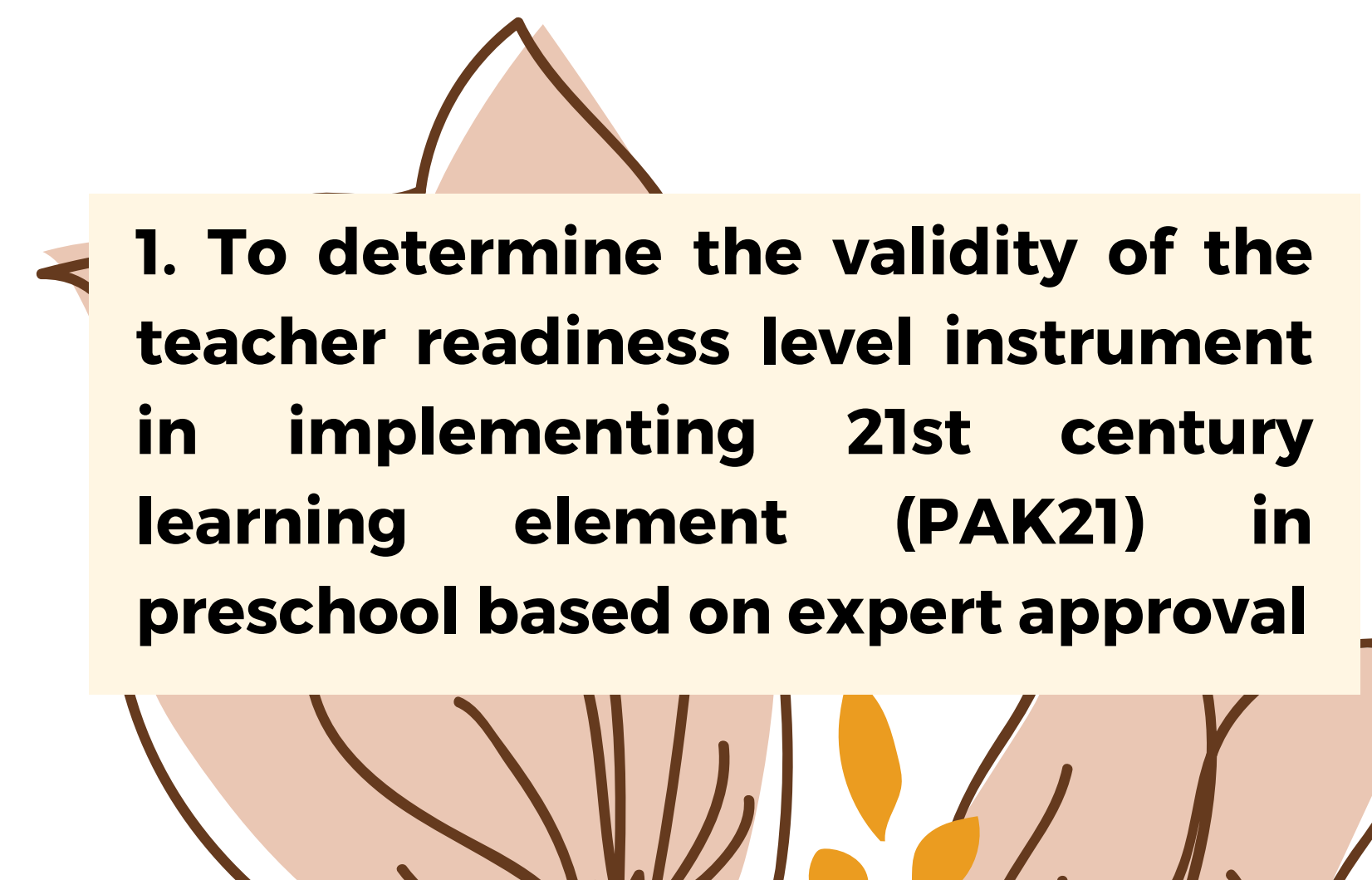
BACKGROUND

One of the key components of the Malaysia Education Blueprint is 21st century learning (PAK21). According to Moe (2017), elements of communication, critical thinking, creativity, collaboration and the application of values and ethics are the core of learning.

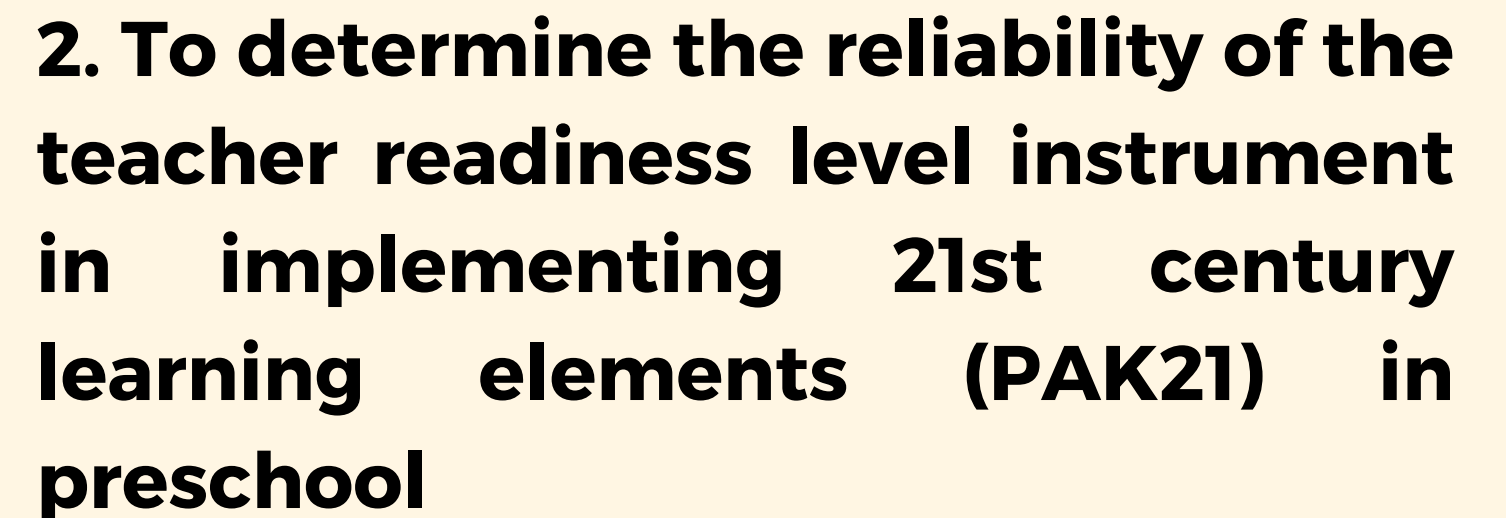
One factor influencing 21st century learning is the quality of teachers (Zulkifly MD Alwayi et al, 2021). Teachers' readiness and understanding are critical factors in the implementation of 21st century learning (Husni et al., 2018).

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STUDY OBJECTIVES

A large, stylized illustration of a flower with light purple petals and pinkish-red leaves, positioned behind the first objective text box.

1. To determine the validity of the teacher readiness level instrument in implementing 21st century learning element (PAK21) in preschool based on expert approval

A large, stylized illustration of a flower with light purple petals and pinkish-red leaves, positioned behind the second objective text box.

2. To determine the reliability of the teacher readiness level instrument in implementing 21st century learning elements (PAK21) in 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 = Experts in Agreement/ Total No. of experts

S-CVI= The average of proportion relevance scores across all experts

METHODOLOGY

RELIABILITY: PILOT STUDY

Vasileiou et.al (2018) stated that the optimal sample size range for a pilot study is between 15 to 30 respondents. A total of 22 preschool teachers from the Kuala Lipis district in Pahang were selected as the participants for the pilot study. a pilot study is carried out to determine the study's reliability based on the Cronbach's Alpha value for the instrumen.

RESULT & DISSCUSSION

No.	Item	Review
1.	The instrument format is suitable and attractive.	Suitable
2.	The items measure the intended domains.	Suitable
3.	The language used is easily understood.	Yes
4.	The font size is suitable and easy to read.	Yes
5.	The meaning of each item is sufficient.	Yes
6.	The number of items is sufficient.	Sufficient
7.	The objectives are clear.	Clear
8.	The instructions are clear.	Clear
9.	The spelling is correct.	Correct
Overall Review		The overall instrument is correct and suitable for the survey study. Best of luck!

The expert provided positive feedback such as the instrument is suitable and attractive and easily understood.

RESULT & DISSCUSSION

Section	Total Item	S-CVI / AVE
B: Teacher Readiness in Terms of Knowledge in Implementing 21st Century Learning Elements	8	0.71
C: Teacher Readiness in Terms of Skills in Implementing 21st Century Learning Elements	8	0.75
D: Teacher Readiness in Terms of Attitude in Implementing 21st Century Learning Elements	8	0.83

Discussion:

The average results scale content validity index (S-CVI) of each expert review on the items ranged from 0.71 to 0.83, suggesting that no questions required repetition.





RESULT & DISSCUSSION

Section	Number of Items	Cronbach Alpha Score	Interpretation
Section B: Teacher Readiness in Terms of Knowledge in Implementing 21st Century Learning Elements	8	0.82	Good and acceptable
Section C: Teacher Readiness in Terms of Skills in Implementing 21st Century Learning Elements	8	0.76	Good and acceptable
Section D: Teacher Readiness in Terms of Attitude in Implementing 21st Century Learning Elements	8	0.88	Good and acceptable
Overall <u>Cronbach's</u> Alpha Value		0.83	Good and acceptable

Discussion:

The Cronbach's Alpha Score of 0.82, 0.76 and 0.88 for Section B, Section C and Section D respectively which are good and acceptable. Overall, the Cronbach's Alpha Value for the instrument The Level of Teacher Readiness for the Implementation of 21st century learning elements in preschool is 0.83 which is good and acceptable.

PILOT STUDY

DISCUSSION

PILOT STUDY:

According to Mohd Najib (1999), if the Cronbach's Alpha value is between 0.8 and 1, the instrument has high reliability, and the items are acceptable.

CONCLUSION

The study found that the instruments built had achieved a high level of reliability (Cronbach's Alpha value = 0.83), all 24 items were suitable for use and no items needed to be repaired.

Instrument of The Level Of Teacher Readiness For The Implementation Of The 21st Century Learning Elements In Preschool has high validity and reliability and coincides to measure each domain in the instrument.

REFERENCE

Mohd Najib, A.G (1999). Penyelidikan Pendidikan Skudai, Johor. Penerbit Universiti Teknologi Malaysia.

Husni, A. , Abd Razif Zaini, Khairatul Akmar Ab Latif, Hasanah Ihsan, Ku Fatahiyah Ku Azizan, Wan Sakiah Wan Ngah & Naqibah Mansor. (2018). Pendidikan Abad Ke-21 Dalam Pengajaran Bahasa Arab di Sekolah Menengah Di Malaysia: Amalan dan Cabaran. *Proceeding of 5th International Research management & Innovation Conference (5th IRMIC 2018)*. 7 Ogos 2018. Palm Garden Hotel, Putrajaya.



THANK YOU