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21st Century Learning: A Research Analysis of Numeracy Literacy Trends among Students

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Sections Info	ABSTRACT			
Article history:	Objective: This study analyzes recent trends in numeracy literacy among			
Submitted: November 26, 2024	primary school students in Kediri District and identifies the challenges,			
Final Revised: January 25, 2025	opportunities, and steps to improve students' numeracy achievement in the			
Accepted: January 26, 2025	21st century. Method: A qualitative approach was used in this study,			
Published: January 31, 2025	including interviews with teachers, classroom observations, and			
Keywords:	documentation of numeracy assessment results. The study involved 200 grade			
21st Century Learning;	4 and 5 students from 10 partner primary schools in the Campus on Duty			
Educational Innovation;	(CoD) program. Results: The findings indicate that numeracy literacy trends			
Numeracy Literacy;	are influenced by the integration of technology, including game-based			
Primary Education;	learning applications and online platforms. Despite limited resources and			
Technology Integration.	insufficient teacher training, technology provides significant opportunities for			
	enhancing numeracy learning. Project-based learning and collaboration with local technology communities were found to be effective in improving			
TTER CL	numeracy understanding by allowing students to apply concepts in real-world			
A- 0005	contexts. Novelty: This study emphasizes the unique role of project-based			
	learning and collaboration with local technology communities as strategies for improving numeracy literacy. By integrating real-world contexts and technology, the findings offer new insights into bridging traditional teaching			
	methods with innovative approaches, addressing the evolving demands of			

21st-century education.

INTRODUCTION

In the 21st century, numeracy literacy has become an essential skill for students, reflecting the demands of a world increasingly driven by data and technological advancements. Despite this, numerous studies have pointed out considerable gaps in students' numeracy abilities, especially in developing countries like Indonesia. Integrating technology and innovative teaching methods has been suggested to bridge these gaps. However, challenges such as limited access to resources, inadequate teacher training, and varying levels of technological adoption continue to persist (Suryani & Nugroho, 2021; Ahmed & Khan, 2022; Beauchamp & Kennewell, 2013). Understanding the trends and factors influencing numeracy literacy is crucial for developing effective interventions. This study aims to explore these trends, focusing on integrating technology, project-based learning, and contextualized approaches in numeracy education, especially for primary school students in Kediri District. By examining these elements, the research addresses the urgent need for innovative and adaptable strategies to improve numeracy literacy in 21st-century learning environments.

Numeracy literacy is a crucial component of education in the 21st century (Fischer & Neumann, 2016; Moyo & Ndhlovu, 2021; Schleppegrell, 2018; Simons & de Vries, 2019). Amidst rapid technological advancements and socio-economic changes, numeracy literacy equips students with the necessary skills to tackle future challenges. It

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