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Analysis of the Effectiveness of Using Flipbook-Based E-Modules in Science Learning in Elementary Schools

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ABSTRACT
Objective: Science learning in elementary school is essential in building scientific understanding and positive attitudes towards science in students. This study aims to analyze the effectiveness of using flipbook-based e-modules in learning science in elementary school. **Method:** The method used in this research is a systematic literature review that includes various relevant empirical studies from 2019 to 2023. Data sources were collected from academic databases such as Google Scholar using the keywords e-module, flipbook, science, and elementary school. **Results:** The results of the analysis show that using flipbook-based e-modules in learning science in elementary schools has several advantages, including increased student learning motivation, better interaction between students and materials, and improved mastery of science concepts. **Novelty:** This research contributes to developing engaging and effective learning methods in primary education and encourages further research to explore the long-term impact of using flipbook-based e-modules in various teaching contexts.

INTRODUCTION

Learning natural science in elementary school is essential for building students' scientific understanding. Conventional teaching methods often need help to meet students' increasingly dynamic learning needs (Jafnihirda et al., 2023). Therefore, innovation in delivering material is significant in attracting students' interest. Traditional classroom teaching methods often need to be more effective in keeping students' attention and interest (Mustofa, 2023). This can result in low concept understanding and student motivation to learn (Brenda et al., 2023). Limited time and resources in delivering material are also an obstacle for teachers (Dohaney et al., 2020; Elisa et al., 2021; Gao & Zhang, 2020; Lukas & Yunus, 2021; Mailizar et al., 2020). Therefore, innovative solutions are needed to overcome this problem and develop the quality of science teaching in elementary schools (Ira & Desyandri, 2023). One of these solutions is the use of flipbook-based e-modules.

Therefore, flipbook-based e-modules are a solution to overcome problems in science learning. This digital flipbook presents subject matter with engaging and interactive visualizations (Bunari et al., 2024; Hartomo & Sukmawati, 2024; Herianto et al., 2022; Salzabila & Fathurrahman, 2024; Utami & Ducha, 2020). Features such as animations, videos, and quizzes help students master diverse concepts for better understanding (Eka & Mayarni, 2022). Not only that, this e-module can be accessed anytime and anywhere, providing convenience to the learning process. Implementing flipbook-based e-modules in science learning in elementary schools provides various benefits (Muhammad & Amanullah, 2020). Teachers can adopt more creative and engaging teaching approaches, making the teaching and learning process more lively (Adipat et

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