



Analysis of the Effectiveness of Wordwall Media Use on Science Learning Outcomes in Elementary Schools

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ABSTRACT

Objective: This study aims to evaluate the effectiveness of using wordwall media on science learning outcomes at the primary school level. This research is important to explore the use of interactive technology in improving student understanding and academic achievement in science lessons. **Method:** This study aims to evaluate the effectiveness of using wordwall media on science learning outcomes at the primary school level. This research is important to explore the use of interactive technology in improving student understanding and academic achievement in science lessons. **Results:** The analysis showed that using Wordwall media significantly improved science learning outcomes and learning motivation and created a more interactive and fun learning atmosphere for students. The advantages of Wordwall include active student engagement, increased information retention, personalized learning, collaboration, and real-time feedback. Several studies have shown an increase in the average student score after using Wordwall and increased student activeness and enthusiasm in following the learning process. **Novelty:** The novelty of this study lies in exploring the specific use of Wordwall in the context of science learning in elementary school and its impact on improving student learning outcomes. Although Wordwall has been widely researched in education in general, this study provides new insights into how this interactive media can effectively improve the quality of science learning at the primary school level and provides recommendations for integrating technology in science teaching.

INTRODUCTION

Education is a significant element of nation-building. In this digital era, conventional learning methods are shifting to digital technology for teaching and learning activities (Leandro et al., 2022). One way to integrate technology into teaching is through learning media (Chandra et al., 2024). An increasingly popular teaching tool is the Wordwall, which provides a variety of interactive educational games (Vivi & Rulviana, 2023). In the realm of learning at the primary school level, student learning outcomes are often the main concern (Bai et al., 2020; Huang et al., 2020; Sitopu, 2024; Syawaluddin et al., 2020; Wahono et al., 2020). Science subjects that are often considered complicated and dull by some students require innovation in learning methods to optimize the achievement of student learning outcomes (Chen et al., 2020; Kawuryan et al., 2021; Samsudin et al., 2023; Simeon et al., 2022; Zhai, 2021).

Conventional teaching in the classroom often fails to maintain student interest, resulting in poor concept understanding and a lack of motivation to learn. Limited time and resources are also obstacles to providing optimal learning experiences for students (Duana et al., 2020). Therefore, innovative solutions are needed to overcome these challenges and improve the quality of science learning in primary schools.

Wordwall Media is a promising solution for creating a fun and interactive learning experience. Wordwall features quizzes, puzzles, and games to engage with the science

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