



Analysis of the Effectiveness of Pop-Up Book Media on Science Learning in Elementary Schools

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ABSTRACT

Objective: Science education in elementary schools provides basic scientific knowledge and skills and develops students' critical and creative thinking abilities. This study aims to analyze the effectiveness of using pop-up books as media in learning science in elementary schools. **Method:** In this study, researchers applied the Systematic Literature Review (SLR) method using the Google Scholar database. The literature search focused on the initial keyword "learning media," restricted from 2019 to 2024, resulting in 86,200 articles. Furthermore, with the addition of the keyword "pop-up book," 4,120 articles were found. Then, adding the last keyword, "science in elementary school," resulted in 318 articles. From this number, data selection and eligibility tests were carried out to obtain suitable articles until 11 appropriate articles were obtained and by the literature review's objectives. **Results:** Based on the study's results, it can be concluded that pop-up book media has proven effective in learning science in elementary schools. **Novelty:** For educators, engaging learning media in learning science is recommended to convey the learning material well and effectively, including pop-up books.

INTRODUCTION

Science education in primary schools plays a vital role in providing students with fundamental scientific knowledge and skills. It was emphasized that literacy in the natural sciences is vital to society, with its significance increasing in the 21st century (Vincentas, 2022). The main goal of natural science education is to provide a systemic study of the natural sciences and develop a person's orientation toward nature (Morgacheva. et al., 2023). Teachers' readiness to organize and implement science education is critical, with the need to improve competencies in research-based learning and practical activities (Hanna & Tymoschuk, 2022). International programs such as TIMSS assess students' scientific literacy globally, highlighting the importance of benchmarking and improving the content of natural science education in primary schools (Tetiana & Mykola, 2023). Therefore, Science Education in primary schools is essential for developing students' scientific literacy as well as skills that are essential for their overall development (Abidin et al., 2021)

Science in elementary school is about learning concepts and theories and developing critical and creative thinking skills. Science in elementary school focuses on fun and meaningful learning for students (Fatmawati et al., 2023; Meirza et al., 2022). Teachers are crucial in creating a conducive learning environment and motivating students to learn Science (Bunyamin, 2023). Science learning in elementary school is an essential foundation for students to continue their education to a higher level and contribute to nation-building (Zakirman et al., 2022). Science is an essential subject in elementary

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