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# A Literature Review on the Effectiveness of LKPD based Local Wisdom-Integrated STEAM Approach in Improving Students' Critical Thinking Skills

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## ABSTRACT

**Objective:** To improve students' critical thinking skills, this study aims to present findings from a literature review on the effectiveness of LKPD, a STEAM-based approach grounded in local wisdom. **Method:** Literature review is a research methodology used and involves searching several scientific works from trusted sites such as Google Scholar, ERIC, Scopus, and CABI, then analyzing them by creating a literature review Matrix, which later describes the results of the analysis obtained from 31 articles used as references. **Results:** In this study, the conclusion was that worksheets for learners (LKPD) based on local wisdom, with a STEAM approach, were valid, practical, and effective. The integration of LKPD, local wisdom, and STEAM supports meaningful and empowering learning and enhances critical thinking skills to address challenges in the 21st century. **Novelty:** The findings indicate that Local Wisdom-based STEAM learning can be an innovative and contextual instructional strategy to foster higher-order thinking skills. This approach supports student-centered learning by encouraging creativity, engagement, and deeper conceptual understanding.

## INTRODUCTION

In the world of 21st-century education, students need three abilities: life and professional skills, the ability to learn and innovate, and the ability in information media and technology. Untuk mewujudkan tiga kemampuan tersebut siswa harus memiliki kemampuan 4C (creativity, bcritical thinking, bcollaboration, band communication). The ability to think critically is one of the 4C competencies that are important for the Twenty-First Century. Students are required to have a thought process that produces many possible, Broad, and appropriate solutions. The ability to think critically and objectively is a significant factor in learning because in learning critical thinking can develop students ' ability to solve problems in the future (Dermawan & Andartiani, 2022), (Yanto et al., 2021).

New challenges in the 21st century that must be faced by students and teachers in the current era of society 5.0, including changing the way students learn, teachers and students must be ready to adapt to rapidly growing technological advances, especially in the learning process, students are trained to be able to have High Order Thinking Skills (HOTS) and high-level critical thinking with one of the many can think critically (Ihsan & Pahmi, 2022). The ability to actively and successfully synthesize, analyze, apply, conceptualize, and evaluate existing knowledge and information is known as critical thinking. An individual with critical thinking skills can assess and examine the reasons, premises, and arguments behind others' views. The primary purpose of