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## Science Teaching Materials Based on Field Trips with Local Wisdom to Improve Elementary School Students' Critical Thinking

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### ABSTRACT

**Objective:** Education is the most essential thing in the life of a human being. Components supporting its implementation are needed to realize the quality of education. Cultivating critical thinking character education is urgently required in the era of globalization. Field trip teaching materials with local wisdom can be an attractive alternative. This study aims to develop science teaching materials based on field trips with local wisdom to improve elementary school students in critical thinking skills. **Method:** This research method uses research and development, Borg and Gall. Data collection techniques used unstructured interviews, observation, assessment tests, and non-tes. At the same time, data analysis uses quantitative data and descriptive elaboration. **Results:** The study showed the validity of teaching materials in this research with a percentage gain of 82.00% if converted to a valid category. In comparison, the practicality of implementing lesson plans obtained a percentage of 94.00%, and student activity obtained a percentage of 95.00% with an outstanding category. The effectiveness of science teaching materials showed pretest results with an average of 66.30, while the post-test data was 87.22. **Novelty:** This research shows a significant increase in the critical thinking skills of elementary school students through learning science teaching materials based on field trips with local wisdom. The update of this research is to implement field trip activities into teaching materials so that learning in cultivating critical thinking is exciting for students.

### INTRODUCTION

Education is the most essential thing in human life. Humans, science, and the future are always related. Therefore, the essence of education is to humanize humans because facing contemporary problems and life's challenges requires a competent generation (Ramli, 2015). The education process starts within the family and then proceeds to the level of formal education organized by the school (Khaironi, 2018). The quality of education is also an interesting issue to be discussed by various parties. The curriculum is the root of reforming education (Suparya, 2021). The government seeks to improve the quality of education by improving the curriculum from time to time (Juwanti et al., 2020). Good quality education will grow the nation's next generation of quality. Government Regulation Number 32 of 2013 concerning national education standards states that the educational process in educational units is carried out in an interactive, inspiring, fun, and challenging manner, motivating students to participate actively and providing sufficient space for initiative, creativity, and independence according to talent, motivation, and the physical and psychological development of students.

The results of the PISA 2018 Assessment and Analytical Framework (2019) show that the average reading ability of Indonesian students is 80 points lower than the average compared to ASEAN students. Indonesian students' average reading, math, and science ability is 2 points, 52 points, and 37 points lower than the ASEAN average. The low critical thinking ability can be seen through learning based only on memorization

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