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Developing Life Skills with Digital Comic Books to Improve Students' Critical Thinking Abilities in Science Subject

| Karmila Bru Sebayang^{1,*} | Hasruddin² | Sri Milfayetty³ |

karmilasebayang98@gmail.com

ABSTRACT

This research aims to develop a life skills-based science material digital comic book teaching material product based on life skills that is feasible, practical and effective to use. This research uses development research (R&D) with a 4D model (Define, Design, Development, and Disseminate) with research subjects of 24 class IV students at SDN 068006 Medan. Data collection techniques use observation, tests, questionnaires and documentation. The results of the research produced feasibility with an average percentage of 91% in the "Very Feasible" category, the practicality test percentage was 79% in the "Practical" category. Next, test effectiveness through student pretest and posttest scores with an N-Gain of 0.51 for the "Effective" criterion. So, it can be concluded that digital comic book teaching materials based on life skills can be used in the learning process.

Keyword: *critical thinking, Digital comic book, life skill,*

INTRODUCTION

The development of the era which continues to progress in industry 4.0 will have a good impact on human life, but this cannot be separated from the quality of human resources. The Indonesian nation has focused on the learning process being related to 21st century education where the aspects that are of concern are students' ability to think critically, creatively, collaboratively, and communication skills. The use of information technology increases the fulfillment of needs that are easily and quickly accessed by users. The belief that improving quality in education is a top priority is oriented towards more interesting learning. Based on the results of interviews with the class IV teacher at SDN 068006 Medan, it was found that teachers still use printed teaching materials in the teaching and learning process. Meanwhile, it is known that the learning process at the school has used the Independent Learning Curriculum which has switched to a subject-based approach, especially in class IV. Learning process activities require students to learn independently or in pairs and require teachers to act as facilitators who can facilitate students, one of which is providing various kinds of information through teaching materials.

However, in reality the provision of teaching materials only focuses on textbooks that have been provided by the school, the teaching materials provided are less varied and less interesting to support the learning process on natural and social science (IPAS) content. In line with research conducted by Jannah & Atmojo (2022), the use of teaching materials can support the smooth science and science learning process in elementary schools, especially

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