

# Liza Ayu Khairani-Interactive Multimedia Development Based on STEM in Improving Science Learning Outcomes turnitin-1

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# Interactive Multimedia Development Based on STEM in Improving Science Learning Outcomes

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## ABSTRACT

*This study aims to determine the feasibility and effectiveness of the use of interactive multimedia based on STEM on the theme of Healthy Food Class V SD Negeri 104197 Klambir Village. This research is a research and development research that refers to the Addie development model which consists of 5 stages, namely the Analysis (Analysis), Design (Design), Development (Development), Implementation, and Evaluation (Evaluation). Subject. This study was a grade student of SD Negeri 104197 Klambir Village, during the field trial of the research subject of 30 students. The research instruments used in data collection are observation, interviews, validation questionnaires and tests. Based on the results of research, interactive multimedia based on STEM developed. The results of the field trial phase The effectiveness criteria are achieved with the number of students reaching 27 people in the post-test or around 90% with the results of the gain score classified in the "medium" effectiveness criteria with a score of 0.61 so that interactive multimedia based on STEM is effective for use.*

**Keywords:** Interactive multimedia, human digestive system, and STEM

## INTRODUCTION

Learning media can be grouped into four groups, namely: (1) Media The results of printed technology such as text, photos, and books, (2) media of audio-visual technology such as film projector machines, (3) media results of technology based on computers generally Known as a computer-assisted instruction (learning with the help of computers), (4) media results of print and computer technology, such as multimedia (Arsyad, 2020). The use of media is adjusted by the teacher to the needs of students and supporting facilities. Based on the four media groups that have been mentioned, innovative media variations can be developed by the teacher.

Learning in elementary schools, especially in learning science requires learning media in its implementation. The presence of learning media has an important meaning for teachers and students during learning. At present learning in elementary schools in accordance with the 2013 curriculum implements thematic learning which also contains science content. According to Prastowo (2019: 110) states that so that learning in SD/MI can be effective and efficient, then learning media and learning resources are needed, multimedia, and multisensory. The multimedia field is one of the learning media that is widely developed as a learning media because it combines computers with video.

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