

Elementary School E-Book Based on Design Thinking to Support Students as Problem Solvers

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ABSTRACT

The ability to solve problems is a competency that must be mastered by someone who is in an era with dynamic developments. Education has an important role to shape students to have the ability as a problem solver. Design thinking is approach that lead students to solve a problem creatively. Various other approaches can help improve problem solving skills, but design thinking helps students to solve complex problems by thinking systematically, turning strategies into solutions, and involving reasoning in it. This study aims at developing a design thinking-based e-book for elementary school students. The book developed in this study guided students to think and act systematically in solving problems. Through the stages of design thinking, students were trained to solve problems creatively. The stages of design thinking were empathy, define, ideate, prototype, and test. Based on this, the e-book was designed with a flow that was adjusted to the nature of science, namely discovery, interpretation, ideation, experimentation, evolution, and enrichment material. Through this line of thinking, students were invited to recognize and understand problems, design ways to solve problems, then conduct investigations in order to solve these problems. This ability is expected to be an asset for students in living in society with the dynamics of complex real-world problems. The book developed is intended for grade 4 elementary school students with IPAS subjects. This book has been validated by material and learning experts with excellent category.

Kata Kunci: *design thinking, learning, elementary school, e-book.*