

ABSTRAK

MHD. IQBAL NASUTION. Pengembangan Bahan Ajar Flipbook Berbasis Budaya Jawa untuk Meningkatkan Kemampuan Pemahaman Konsep Matematis dan Motivasi Belajar Peserta Didik Kelas VII. Tesis. Medan: Program Studi Pendidikan Matematika Pascasarjana Universitas Negeri Medan. 2024.

Penelitian ini bertujuan untuk mendeskripsikan: 1) validitas, kepraktisan dan efektifitas bahan ajar *flipbook* berbasis budaya Jawa yang dikembangkan terhadap peningkatan kemampuan pemahaman konsep matematis dan motivasi belajar peserta didik di SMP Pusaka Bandar Klippa; 2) peningkatan kemampuan pemahaman konsep matematis peserta didik melalui bahan ajar *flipbook* berbasis budaya Jawa yang dikembangkan; 3) peningkatan motivasi belajar peserta didik melalui bahan ajar *flipbook* berbasis budaya Jawa yang dikembangkan. Penelitian ini merupakan penelitian pengembangan dengan menggunakan model pengembangan Hannafin dan Peck. Model pengembangan ini terdiri dari 3 tahap pengembangan yaitu (1) *needs assesment*, (2) *design*, dan (3) *development/implementation*. Dari hasil uji coba lapangan diperoleh: 1) bahan ajar *flipbook* berbasis budaya Jawa untuk meningkatkan kemampuan pemahaman konsep matematis dan motivasi belajar peserta didik yang dikembangkan sudah memenuhi kriteria valid, praktis, dan efektif; 2) Peningkatan kemampuan pemahaman konsep matematis menggunakan bahan ajar *flipbook* berbasis budaya Jawa yang telah dikembangkan dilihat dari nilai *N-gain* pada uji coba lapangan sebesar 0,64 yang berada dalam kategori “sedang”; dan 3) Peningkatan motivasi peserta didik dengan bahan ajar *flipbook* berbasis budaya Jawa yang telah dikembangkan dapat meningkatkan motivasi belajar peserta didik dengan peningkatan sebesar 8,28%.

Kata kunci: Pengembangan Bahan Ajar, *Flipbook*, Model Hannafin dan Peck, Budaya Jawa, Kemampuan Pemahaman Konsep Matematis, Motivasi Belajar



ABSTRACT

MHD. IQBAL NASUTION. Development of Javanese Culture-Based Flipbook Teaching Materials to Improve Mathematical Concept Understanding Ability and Learning Motivation of Grade VII Learners.

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This study aims to describe: 1) the validity, practicality and effectiveness of the Javanese culture-based flipbook teaching materials developed to improve students' mathematical concept understanding ability and learning motivation at Pusaka Bandar Klippa Junior High School; 2) the improvement of students' mathematical concept understanding ability through the developed Javanese culture-based flipbook teaching materials; 3) the improvement of students' learning motivation through the developed Javanese culture-based flipbook teaching materials. This research is a development research using the Hannafin and Peck development model. This development model consists of 3 stages of development, namely (1) needs assessment, (2) design, and (3) development/implementation. From the results of the field trial, it was obtained: 1) Javanese culture-based flipbook teaching materials to improve students' mathematical concept understanding ability and learning motivation developed have met the criteria of valid, practical, and effective; 2) Increased problem solving ability using Javanese culture-based flipbook teaching materials that have been developed seen from the N-gain value in the field trial of 0.64 which is in the "medium" category; and 3) Increased motivation of students with Javanese culture-based flipbook teaching materials that have been developed can increase student learning motivation with an increase of 8.28%.

Keywords: Teaching Material Development, Flipbook, Hannafin and Peck Model, Javanese Culture, Mathematical Concept Understanding Ability, Learning Motivation.