ABSTRAK

Nur Rahmi Rizqi. Pengembangan Bahan Ajar Berbasis Pendekatan Metakognitif untuk Meningkatkan Kemampuan Penalaran Matematis dan Kecerdasan Emosional Siswa SMP Sabilina Tembung. Tesis. Medan: Program Pascasarjana Universitas Negeri Medan, September.2017.

Penelitian ini bertujuan untuk mengetahui: (1) Validitas, kepraktisan, dan keefektifan bahan ajar berbasis pendekatan metakognitif yang dikembangkan terhadap peningkatan kemampuan penalaran matematis dan kecerdasan emosional siswa, (2) Peningkatan kemampuan penalaran matematis siswa dengan menggunakan bahan ajar berbasis pendekatan metakognitif yang telah dikembangkan, dan (3) Peningkatan kecerdasan emosional siswa dengan menggunakan bahan ajar berbasis pendekatan metakognitif yang telah dikembangkan. Pengembangan bahan ajar berbasis pendekatan metakognitif ini menggunakan model pengembangan 4-D. Tahapan penelitian ini adalah *define*, *design*, *develop* dan *disseminate*. Subjek penelitian ini adalah siswa kelas VIII-7 dan VIII-8 SMP Sabilina Tembung. Dari hasil uji coba I dan uji coba II diperoleh: (1) Validitas bahan ajar menurut tim ahli adalah valid, kepraktisan bahan ajar telah memenuhi kriteria praktis ditinjau dari: a) validator menyatakan bahan ajar dapat digunakan dengan revisi kecil; b) hasil pengamatan keterlaksanaan bahan ajar telah dapat dikatakan baik, dan keefektifan bahan ajar telah memenuhi kriteria efektif ditinjau dari: a) ketuntasan belajar siswa secara klasikal; b) aktivitas aktif siswa dalam batas toleransi yang telah ditetapkan; c) respon siswa terhadap komponen-komponen bahan ajar dan kegiatan pembelajaran positif. (2) terdapat peningkatan kemampuan penalaran matematis siswa pada posttes ujicoba I dan ujicoba II sebesar 4 point, dan (3) terdapat peningkatan rata-rata kecerdasan emosional siswa pada angket ujicoba I dan ujicoba II sebesar 3,3 point.
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Kata kunci: Bahan Ajar, Model pengembangan 4-D, Pendekatan Metakognitif, Penalaran Matematis, Kecerdasan Emosional.

ABSTRACT

Nur Rahmi Rizqi. Development of Learning Materials Based on Metacognitive Approaches to Increase Mathematical Reasoning Ability and Emotional Intelligence Students of SMP Sabilina Tembung. Thesis. Medan: Graduate Program of Medan State University, September.2017.

This research aims to know: (1) validity, practicality, and effectiveness of learning materials based on metacognitive approaches that were developed through increasing of students' mathematical reasoning ability and emotional intelligence, (2) the increasing of students' mathematical reasoning ability by using learning materials based on metacognitive approach that has been developed , and (3) the increasing of students' emotional intelligence by using learning materials based on metacognitive approach that has been developed. The development of learning materials based on this metacognitive approach by using the 4-D development model. The stages of this research includes define, design, develop and disseminate. The subjects of this research were students of class VIII-7 and VIII-8 SMP Sabilina Tembung. From the results on trials I and 2 were obtained: (1) according to the experts, the validity of learning materials is valid, the practicality of the learning materials has fulfilled the practical criteria that have reviewed from: a) the validator stated the learning materials can be used with a little revisions; b) the result of observation on learning materials has been done as said good, and the effectiveness of leaning materials has fulfilled the effective criteria in terms of: a) the mastery of students learning in classical; b) limits of tolerance that have been established on students' active activity; c) students' responses is positive to the components of learning materials and learning activities. (2) there is an increase in students' mathematical reasoning abilities on posttest trials I and trials II of 4 point, and (3) there was an increase in the average of students' emotional intelligence on trials I and trials II of 3.3 point.

Keywords: Learning Materials, 4-D Development Model, Metacognitive Approach, Mathematical Reasoning, Emotional Intelligence.