ABSTRAK

RIA PURNAMA SARI. Pengembangan Perangkat Pembelajaran Berbasis *Contextual Teaching and Learning* (CTL) untuk meningkatkan Kemampuan Pemecahan Masalah Matematis dan *Self Efficacy* Siswa di SMP Negeri 1 Hamparan Perak. Tesis. Medan: Program Studi Pendidikan Matematika Pascasarjana Universitas Negeri Medan. 2021.

Penelitian ini bertujuan untuk: 1) menemukan perangkat pembelajaran berbasis *contextual teaching and learning* (CTL) yang valid, praktis dan efektif sehingga dapat meningkatkan kemampuan pemecahan masalah dan *self efficacy* matematis siswa di SMP Negeri 1 Hamparan Perak; 2) menemukan perangkat pembelajaran berbasis *contextual teaching and learning* (CTL) yang dapat meningkatkan kemampuan pemecahan masalah matematis siswa di SMP Negeri 1 Hamparan Perak; 3) menemukan perangkat pembelajaran berbasis *contextual teaching and learning* (CTL) yang dapat meningkatkan *self efficacy* siswa di SMP Negeri 1 Hamparan Perak. Penelitian ini merupakan penelitian pengembangan. Model penelitian yang digunakan pada penelitian ini adalah model 4D. Hasil penelitian menunjukkan bahwa: 1) perangkat pembelajaran berbasis *contextual teaching and learning* (CTL) yang dikembangkan memenuhi kriteria kevalidan, kepraktisan dan keefektifan perangkat pembelajaran; 2) peningkatan kemampuan pemecahan masalah matematis siswa menggunakan perangkat pembelajaran berbasis *contextual teaching and learning* (CTL) meningkat ditinjau dari *N-Gain* uji coba I sebesar 0,48 dan pada uji coba II sebesar 0,57 dengan kategori sedang; 3) peningkatan *Self efficacy* siswa setelah menggunakan perangkat pembelajaran berbasis *contextual teaching and learning* (CTL) meningkat dikembangkan berdasarkan kategori KAM mengalami peningkatan dari uji coba I ke uji coba II, pada kelompok tinggi sebesar 94,67 meningkat menjadi 98, Pada kelompok sedang sebesar 82,80 meningkat menjadi 83,47. Pada kelompok rendah sebesar 63,25 meningkat menjadi 64. Dilihat dari rata-rata pencapaian *self-efficacy* siswa pada uji coba I sebesar 80,86 meningkat menjadi 81,90 pada uji coba II.

Kata kunci: P*engembangan Perangkat Pembelajaran, Contextual Teaching and Learning, Kemampuan Pemecahan Masalah, Self Efficacy*

ABSTRACT

RIA PURNAMA SARI. Development of Contextual Teaching And Learning (CTL) Based Learning Devices to Improve Students' Mathematic Problem Solving and Self Efficacy Ability in SMP Negeri 1 Hamparan Perak. Thesis. Medan: Mathematics Education Program Postgraduate School State University of Medan. 2021.

This study aims to: 1) find a learning tool based on contextual teaching and learning (CTL) that is valid, practical and effective so that it can improve problem solving skills and self-efficacy students' mathematical at SMP Negeri 1 Hamparan Perak; 2) finding learning tools based on contextual teaching and learning (CTL) that can improve students' mathematical problem solving skills at SMP Negeri 1 Hamparan Perak; 3) finding learning tools based on contextual teaching and learning (CTL) that can increase self-efficacy studentat SMP Negeri 1 Hamparan Perak. This research is a development research. The research model used in this study is the 4D model. The results showed that: 1) learning tools based on contextual teaching and learning (CTL) developed meets the criteria of validity, practicality and effectiveness of learning tools; 2) the improvement of students' mathematical problem solving abilities usingbased learning tools contextual teaching and learning (CTL) increased in terms of N-Gain in the first trial of 0.48 and in the second trial of 0.57 in the moderate category; 3) the increase in self-efficacy students' after using based learning tools has contextual teaching and learning (CTL) increased based on the KAM category, it has increased from trial I to trial II, in the high group it is 94.67, it increases to 98, in the moderate group it is 82.80 increased to 83.47. In the low group, it was 63.25, it increased to 64. Judging from the average achievement of self-efficacy students' in the first trial of 80.86 to increase to 81.90 on trial II.

Keywords: *Development of Learning Tools, Contextual Teaching and Learning, Problem Solving Skills, Self Efficacy*