

ABSTRAK

Yenni Padila Siregar. Pengembangan Perangkat Pembelajaran Berbasis Pendekatan Kontekstual Menggunakan *Hypercontent* untuk Meningkatkan Kemampuan Pemecahan Masalah dan Disposisi Matematis Siswa. Tesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2021.

Penelitian ini bertujuan untuk mendeskripsikan: validitas, kepraktisan dan efektifitas perangkat pembelajaran berbasis pendekatan kontekstual menggunakan *hypercontent*, peningkatan kemampuan pemecahan masalah dan disposisi matematis siswa dengan menggunakan perangkat pembelajaran yang dikembangkan dan proses jawaban siswa dalam menyelesaikan soal-soal kemampuan pemecahan masalah. Penelitian ini merupakan penelitian pengembangan dengan model pengembangan 4-D. Instrument penelitian ini adalah lembar validasi dan observasi, Tes Pemecahan masalah dan Angket Disposisi. Uji coba I dilakukan pada siswa kelas VII-1 dan uji coba II di kelas VII-2 MTs N 3 Tapanuli Selatan. Dari hasil penelitian ini diperoleh bahwa: (1) Validitas Perangkat pembelajaran berbasis kontekstual menggunakan *hypercontent* meliputi RPP, BS, LKPD, TKPM, Angket Disposisi Matematis yang dikembangkan termasuk dalam kategori valid; (2) Kepraktisan Perangkat pembelajaran berbasis kontekstual menggunakan *hypercontent* yang dikembangkan diperoleh bahwa: perangkat dapat dipergunakan dengan sedikit revisi dan hasil pengamatan keterlaksanaan perangkat pembelajaran di kelas diperoleh rata-rata nilai praktis, reliabilitas instrument perangkat baik; (3) Keefektifan Perangkat pembelajaran berbasis kontekstual menggunakan *hypercontent* yang dikembangkan menunjukkan ketuntasan klasikal *pretest* siswa pada uji coba I sebesar 46,87% dan *posttest* 81,25%. Sedangkan *pretest* siswa pada uji coba II sebesar 43,75% dan *posttest* 90,63%, lebih dari 80% siswa memberikan respon positif terhadap perangkat pembelajaran yang dikembangkan; (4) Kemampuan pemecahan masalah dan disposisi matematis siswa menggunakan perangkat pembelajaran berbasis kontekstual yang dikembangkan meningkat ditinjau dari rata-rata *pretest*, *posttest* dan *N-Gain*.

Kata kunci: Pengembangan perangkat pembelajaran, model 4-D, Pendekatan Kontekstual, kemampuan pemecahan masalah, disposisi matematis.

ABSTRACT

Yenni Padila Siregar. Development of Learning Tools Based on Contextual Approach Using *Hypercontent* to Improve Problem Solving Ability and Mathematical Disposition of Students. Thesis. Medan: Medan State University Postgraduate Program, 2021.

This study aims to describe: the validity, practicality and effectiveness of learning tools based on a contextual approach using *hypercontent*, increasing problem solving abilities and students' mathematical disposition by using developed learning tools and the student's answer process in solving problems. -About problem solving ability. This research is a development research with a 4-D development model. The instruments of this research are validation and observation sheets, problem solving tests and disposition questionnaires. The first trial was conducted on students of class VII-1 and the second trial was in class VII-2 of MTs N 3 South Tapanuli. From the results of this study, it was obtained that: (1) the validity of contextual-based learning tools using *hypercontent* including lesson plans, BS, LKPD, TKPM, the developed Mathematical Disposition Questionnaire included in the valid category; (2) Practicality of contextual-based learning tools using *hypercontent* that was developed, it was found that: the device can be used with a few revisions and the results of observing the implementation of learning tools in the classroom obtained an average practical value, the reliability of the instrument was good; (3) The effectiveness of contextual-based learning tools using *hypercontent* that was developed showed that the students' classical *pretest* in the first trial was 46.87% and *posttest* 81.25%. While *pretest* of students in the second trial was 43.75% and *posttest* 90.63%, more than 80% of students gave a positive response to the developed learning tools; (4) The problem solving ability and mathematical disposition of students using the developed contextual-based learning tools increased in terms of the average *pretest*, *posttest* and *N-Gain*.

Keywords: Development of learning tools, 4-D model, Contextual Approach, problem solving ability, mathematical disposition.