

ABSTRAK

Salma Lisdiyana Nurfitriyah, “Peningkatan Kemampuan Berpikir Aljabar Dan *Habits of Mind* Melalui *Game Based Learning* Berbantuan *Free Universal Algebra Equestion Solver*”

Kemampuan berpikir aljabar merupakan salah satu *skill* yang harus dimiliki oleh siswa. Namun kemampuan berpikir aljabar siswa masih harus ditingkatkan. Tujuan dari penelitian ini adalah untuk menganalisis : keterlaksanaan pembelajaran *Game Based Learning* Berbantuan *Free Universal Algebra Equestion Solver* ; perbedaan peningkatan kemampuan berpikir aljabar siswa ; perbedaan pencapaian kemampuan berpikir aljabar siswa ditinjau dari *posttest* ; peningkatan *Habits of Mind* melalui *Game Based Learning* berbantuan *Free Universal Algebra Equestion Solver* ; tanggapan guru terhadap penerapan model *Game Based Learning* Berbantuan *Free Universal Algebra Equestion Solver*. Penelitian ini dilakukan di MTs YPK Cijulang pada kelas VII-A dan VII-B dengan metode kuasi eksperimen, instrumen yang digunakan adalah tes kemampuan berpikir aljabar dan wawancara. Berdasarkan pengolahan data, diperoleh hasil sebagai berikut : keterlaksanaan pembelajaran *Game Based Learning* Berbantuan *Free Universal Algebra Equestion Solver* dikategorikan baik ; peningkatan kemampuan berpikir aljabar siswa dengan *Game Based Learning* lebih baik daripada siswa dengan pembelajaran konvensional ; pencapaian kemampuan berpikir aljabar siswa melalui *Game Based Learning* lebih baik daripada siswa dengan pembelajaran konvensional ditinjau dari *posttest* ; peningkatan *Habits of Mind* siswa saat menggunakan model *Game Based Learning* Berbantuan *Free Universal Algebra Equestion Solver* dikategorikan baik ; terdapat tanggapan positif dari guru mengenai pembelajaran *Game Based Learning* Berbantuan *Free Universal Algebra Equestion Solver*. Sehingga, model *Game Based Learning* Berbantuan *Free Universal Algebra Equestion Solver* efektif dalam meningkatkan kemampuan berpikir aljabar siswa kearah yang lebih baik.

Kata Kunci: Model *Game Based Learning*, Aplikasi *Free Universal Algebra Equestion Solver*, Kemampuan Berpikir Aljabar, *Habits of Mind*.

ABSTRACT

Salma Lisdiyana Nurfitriyah, “Improving Algebraic Thinking Abilities and Habits of Mind Through Game Based Learning Assisted by Free Universal Algebra Question Solver”

The ability to think algebraically is one of the skills that students must have. However, students' algebraic thinking abilities still need to be improved. The aim of this research is to analyze: the implementation of Game Based Learning with the help of Free Universal Algebra Question Solver; differences in increasing students' algebraic thinking abilities; differences in the achievement of students' algebraic thinking abilities in terms of the posttest; increasing Habits of Mind through Game Based Learning assisted by the Free Universal Algebra Question Solver; Teacher responses to the application of the Game Based Learning model assisted by the Free Universal Algebra Question Solver. This research was conducted at MTs YPK Cijulang in classes VII-A and VII-B using a quasi-experimental method, the instruments used were algebraic thinking ability tests and interviews. Based on data processing, the following results were obtained: the implementation of Game Based Learning with the help of Free Universal Algebra Question Solver was categorized as good; increasing students' algebraic thinking skills with Game Based Learning is better than students with conventional learning; the achievement of students' algebraic thinking skills through Game Based Learning is better than students using conventional learning in terms of the posttest; increasing students' Habits of Mind when using the Game Based Learning model assisted by the Free Universal Algebra Question Solver is categorized as good; There was a positive response from teachers regarding Game Based Learning with the help of the Free Universal Algebra Question Solver. So, the Game Based Learning model assisted by the Free Universal Algebra Question Solver is effective in improving students' algebraic thinking skills in a better direction.

Keywords: Game Based Learning, Free Universal Algebra Question Solver, Algebraic Thinking, Habits of Mind.