ABSTRAK

Nona Farahdiba. NIM 4193311012 (2019). Pengembangan Media Audio Visual Berdasarkan Model Pembelajaran SAVI untuk Meningkatkan kemampuan Penalaran Matematis Siswa SMA Negeri 1 Tamiang Hulu.

Penelitian ini bertujuan untuk memperoleh Media Audio Visual berdasarkan Model Pembelajaran SAVI (Somatis, Auditori, Visual, Intelektual) dengan kategori valid, praktis, dan efektif, sehingga mampu meningkatkan kemampuan penalaran matematis siswa SMA Negeri 1 Tamiang Hulu. Instrumen penelitian yang digunakan pada penelitian ini berupa lembar validasi angket dan instrumen, lembar validasi RPP, lembar validasi Media Audio Visual, tes kemampuan penalaran matematis, serta angket respon siswa dan guru terhadap Media Audio Visual. Setelah seluruh instrumen, RPP, dan Media Audio Visual berdasarkan Model Pembelajaran SAVI dinyatakan valid oleh validator, selanjutnya dilakukan uji coba lapangan. Hasil penelitian menunjukkan bahwa: (1) Tingkat kevalidan media audio visual yang dinyatakan valid oleh validator: i) hasil validasi ahli media dengan rata-rata 86,74 %; (ii) hasil validasi ahli materi dengan rata-rata 88,25 %. (2) Angket respon siswa pada saat melakukan pembelajaran dengan media audio visual memperoleh persentasi sebesar 83,18% dan hasil respon guru matematika terhadap media memperoleh nilai sebesar 93,18 % sehingga media dinyatakan dalam kategori "sangat praktis". (3) Tingkat keefektifan media audio visual berdasarkan hasil analisis data keefektifan bahwa rata-rata posttest 83,06 termasuk ke dalam kriteria kemampuan penalaran matematis "tinggi". Hasil perhitungan peningkatan nilai pretest ke postest memperoleh N-gain sebesar 0,73 yang termasuk dalam kategori "sangat efektif".

Kata Kunci: Media Audio Visual, Model Pembelajaran SAVI, Kemampuan Penalaran Matematis

ABSTRACT

Nona Farahdiba. NIM 4193311012 (2019). The Development of Audio Visual Media Based on SAVI Learning Model to Improve Mathematical Reasoning Ability of Students of SMA Negeri 1 Tamiang Hulu.

This study aims to obtain Audio Visual Media based on the SAVI Learning Model (Somatic, Auditory, Visual, Intellectual) with valid, practical, and effective categories, so as to improve the mathematical reasoning skills of SMA Negeri 1 Tamiang Hulu students. The research instruments used in this study were questionnaire and instrument validation sheets, lesson plan validation sheets, Audio Visual Media validation sheets, mathematical reasoning ability tests, and student and teacher response questionnaires to Audio Visual Media. After all instruments, lesson plans, and Audio Visual Media based on the SAVI Learning Model were declared valid by the validator, then field trials were conducted. The results showed that: (1) The level of validity of audio visual media declared valid by validators: i) the results of media expert validation with an average of 86.74%; (ii) the results of material expert validation with an average of 88.25%. (2) The student response questionnaire when doing learning with audio-visual media obtained a percentage of 83.18% and the results of the math teacher's response to the media obtained a score of 93.18% so that the media was valid. (3) The level of effectivity of audio-visual media based on the results of the effectiveness data analysis that the average posttest of 83.06 is included in the criteria of "high" mathematical reasoning ability. The calculation of the increase in pretest to posttest scores obtained an N-gain of 0.73 which is included in the "very effective" category.

Keywords: Audio Visual Media, SAVI Learning Model, Mathematical Reasoning Ability