

ABSTRAK

Tiara Novita: Pengaruh Model Pembelajaran Visualisasi, Auditori, Kinestetik (VAK) Berbantuan Baamboozle Terhadap Kemampuan Representasi Matematis Siswa. **Program Studi Pendidikan Matematika FKIP Universitas Malikussaleh, 2026.**

Rendahnya kemampuan representasi matematis siswa masih menjadi permasalahan dalam pembelajaran matematika. Hal ini dipengaruhi oleh model pembelajaran yang belum menyesuaikan dengan gaya belajar siswa serta kurangnya pemanfaatan teknologi. Oleh karena itu, diperlu kan model pembelajaran VAK (Visualisasi, Auditori, Kinestetik) yang didukung *game Quizizz* Baamboozle untuk meningkatkan kemampuan representasi matematis siswa. Penelitian ini bertujuan untuk mengetahui pengaruh model VAK berbantuan Baamboozle terhadap kemampuan representasi matematis siswa. Penelitian dilaksanakan pada siswa kelas X di SMA Negeri 1 Tanah Jambo Aye dengan menggunakan metode *quasi experiment* dan *desain nonequivalent control group design*. Populasi penelitian mencakup seluruh siswa kelas X SMA Negeri 1 Tanah Jambo Aye, sedangkan sampel dipilih melalui teknik *purposive sampling*. Kelas X.I ditetapkan sebagai kelas eksperimen, sementara kelas X.2 sebagai kelas kontrol. Instrumen yang digunakan dalam penelitian ini terdiri atas instrumen tes dan non-tes. Instrumen tes berupa *pretest* dan *posttest* digunakan untuk mengukur kemampuan representasi matematis siswa. Adapun instrumen non-tes meliputi lembar observasi aktivitas guru dan siswa selama proses pembelajaran berlangsung serta angket untuk mengidentifikasi gaya belajar siswa pada kelas eksperimen. Analisis data dilakukan menggunakan uji *Independent Sample t-test* dengan *taraf signifikansi 0,05*. Hasil analisis menunjukkan nilai *Sig. (2 -tailed)* sebesar $0,000 < 0,05$, H_1 diterima yang artinya terdapat pengaruh yang signifikan terhadap Model Pembelajaran VAK berbantuan Baamboozle terhadap kemampuan representasi matematis siswa di SMA Negeri 1 Tanah Jambo Aye.

Kata Kunci: Kemampuan Represntasi Matematis Siswa, VAK, Baamboozle.

ABSTRACT

Tiara Novita: The Effect of the Visualization, Auditory, Kinesthetic (VAK) Learning Model Assisted by Baamboozle on Students' Mathematical Representation Ability. **Mathematics Education Study Program, Faculty of Teacher Training and Education, Malikussaleh University, 2026.**

Students' low mathematical representation ability remains a major challenge in mathematics learning. This problem is influenced by the use of learning models that do not accommodate students' learning styles and the limited integration of technology into the learning process. Therefore, the Visual, Auditory, and Kinesthetic (VAK) learning model supported by the Baamboozle educational game is expected to improve students' mathematical representation ability. This study aimed to determine the effect of the VAK learning model assisted by Baamboozle on students' mathematical representation ability. This study was conducted with tenth-grade students at SMA Negeri 1 Tanah Jambo Aye using a quasi-experimental method with a nonequivalent control group design. The population consisted of all tenth-grade students at SMA Negeri 1 Tanah Jambo Aye, while the sample was selected using a purposive sampling technique. Class X.1 was assigned as the experimental group, whereas Class X.2 served as the control group. The research instruments consisted of test and non-test instruments. The test instruments included a pretest and a posttest to measure students' mathematical representation ability. The non-test instruments included observation sheets to assess teacher and student activities during the learning process and a questionnaire to identify students' learning styles. Data were analyzed using the Independent Samples t-test at a significance level of 0.05. The results showed that the *Sig. (2 – tailed) value* was $0,000 < 0,05$, indicating a statistically significant difference between the experimental and control groups. Based on these findings, it can be concluded that the VAK learning model assisted by Baamboozle has a significant effect on students' mathematical representation ability at SMA Negeri 1 Tanah Jambo Aye.

Keywords: Mathematical Representation Ability, VAK, Baamboozle.