

ABSTRAK

Simanullang, Y. 2025. Pengaruh Pembelajaran Terdiferensiasi Model *Problem Based Learning* Berbantuan *Google Sites* Berkonteks Budaya Melayu terhadap Pemahaman Konsep Matematis Siswa Kelas VII. Skripsi. Tanjungpinang: Program Studi Pendidikan Matematika, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Maritim Raja Ali Haji. Pembimbing I: Febrian, S.Pd., M.Sc. Pembimbing II: Alona Dwinata, S.Si., M.Si.

Kata Kunci: Pembelajaran Terdiferensiasi, *Problem Based Learning*, *Google Sites*, Budaya Melayu, Pemahaman Konsep Matematis.

Penelitian ini bertujuan untuk menguji apakah ada pengaruh pembelajaran terdiferensiasi model *problem based learning* berbantuan *google sites* berkonteks budaya melayu terhadap pemahaman konsep matematis siswa kelas VII. Penelitian ini menggunakan pendekatan kuantitatif dengan jenis *quasi experimental* dan desain *non-equivalent control group*. Populasi penelitian adalah siswa kelas VII SMP Negeri 16 Bintan, terdiri dari 4 kelas dengan total 122 siswa. Sampel terdiri atas dua kelas, yaitu VII.C dan VII.D, yang dipilih melalui teknik *cluster sampling*. Teknik pengumpulan data meliputi tes kesiapan belajar, *pretest*, *posttest*, dan observasi. Instrumen utama berupa tes kesiapan belajar, *pretest*, *posttest*, dan lembar observasi, serta instrumen pendukung berupa modul ajar dan *google sites*. Data yang dianalisis mencakup data kualitatif tentang kegiatan pembelajaran dan data kuantitatif tentang kesiapan belajar, kemampuan awal, dan kemampuan akhir siswa. Rata-rata kemampuan akhir siswa sebesar 68,29 lebih tinggi dari kemampuan awal 29,20. Hasil uji *independent sample t-test* menunjukkan *sig. (2-tailed)* sebesar $0,017 < 0,05$, sehingga H_0 ditolak dan H_a diterima. Disimpulkan bahwa terdapat pengaruh signifikan pembelajaran terdiferensiasi model *problem based learning* berbantuan *google sites* berkonteks budaya Melayu terhadap pemahaman konsep matematis siswa kelas VII.

ABSTRACT

Simanullang, Y. 2025. *The Effect of Differentiated Learning Problem Based Learning Model aided by Google Sites with Malay Cultural Context on Mathematical Concept Understanding of Grade VII Students*. Thesis. Tanjungpinang: Mathematics Education Study Program, Faculty of Teacher Training and Education, Raja Ali Haji Maritime University. Advisor I: Febrian, S.Pd., M.Sc. Advisor II: Alona Dwinata, S.Si., M.Si.

Keywords: *Differentiated Learning, Problem Based Learning, Google Sites, Malay Culture, Mathematical Concept Understanding.*

This study aims to examine whether there is an effect of differentiated learning using the problem-based learning model assisted by Google Sites in the context of Malay culture on the mathematical concept understanding of seventh-grade students. This study uses a quantitative approach with a quasi-experimental design and a non-equivalent control group. The study population consists of seventh-grade students at SMP Negeri 16 Bintan, comprising four classes with a total of 122 students. The sample consists of two classes, VII.C and VII.D, selected through cluster sampling. Data collection techniques include learning readiness tests, pre-tests, post-tests, and observations. The main instruments are learning readiness tests, pre-tests, post-tests, and observation sheets, while supporting instruments include teaching modules and Google Sites. The data analyzed included qualitative data on learning activities and quantitative data on students' learning readiness, initial abilities, and final abilities. The average final ability of students was 68.29, which was higher than the initial ability of 29.20. The results of the independent sample t-test showed a sig. (2-tailed) of $0.017 < 0.05$, so H_0 was rejected and H_a was accepted. It was concluded that there was a significant effect of differentiated learning using the problem based learning model assisted by google sites in the Malay cultural context on the mathematical concept understanding of seventh-grade students.