ABSTRAK

Sardiyanti Anwar, 2022. Peningkatan Kemampuan Berpikir Matematis Siswa Dengan Pembelajaran STEM (Science, Technology, Engineering, Mathematics) Pada Materi Lingkaran. Skripsi, Program Studi Pendidikan Matematika Jurusan Pendidikan MIPA Fakultas Keguruan dan Ilmu Pendidikan Universitas Khairun Ternate. Di bawah bimbingan Wilda Syam Tonra, S.Pd.,M.Pd. dan Asmar Bani, S.Pd.,M.Pd.

Pembelajaran STEM dalam bidang pendidikan bertujuan untuk mempersiapkan peserta didik supaya dapat bersaing dan siap untuk bekerja sesuai bidang keahliannya. Penelitian dilakukan di SMP Muhammadiyah 2 Kota Ternate Tahun ajaran 2022/2023 pada siswa kelas VIII tanggal 3 Februari 2022. Penelitian ini bertujuan untuk mengetahui kemampuan berpikir matematis siswa setelah diterapkannya model pembelajaran *STEM (Science, Technology, Engineering, Mathematics),* apakah terdapat peningkatan kemampuan berpikir matematis siswa melalui model pembelajran *STEM (Science, Technology, Engineering, Mathematics)* pada pokok bahasan lingkaran. Bentuk desain pre-eksperimen yang digunakan dalam penelitian ini adalah *one group pretest posttest design*. Berdasarkan analisis hasil penelitian, diperoleh bahwa skor rata-rata *pretest* adalah 40,41 dan *posttest* adalah 83,73 serta skor *N-Gain* adalah 0,74 yakni dengan peningkatan kemampuan berpikir matematis memiliki interpretasi tinggi. Maka dapat disimpulkan bahwa terdapat peningkatan kemampuan berpikir matematis siswa setelah diterapkan model pembelajaran *STEM (Science, Technology, Engineering, Mathematics)* pada materi lingkaran.

Kata Kunci: Peningkatan Kemampuan Berpikir, STEM (Science, Technology, Engineering, Mathematics), Lingkaran

ABSTRACT

Sardiyanti Anwar, 2022. Improving Students' Mathematical Thinking Ability By Learning STEM (Science, Technology, Engineering, Mathematics) in Circle Material. Thesis, Mathematics Education Study Program, MIPA Education Department, Teacher Training and Education Faculty, University of Khairun Ternate. Under the guidance of Wilda Syam Tonra, S.Pd., M.Pd. and Asmar Bani, S.Pd., M.Pd.

STEM learning in the field of education aims to prepare students to be competitive and ready to work according to their field of expertise. The research was conducted at SMP Muhammadiyah 2 Kota Ternate for the academic year 2022/2023 to class VIII students on February 3, 2022. This study aims to determine students' mathematical thinking skills after the implementation of the *STEM (Science, Technology, Engineering, Mathematics) learning model,* whether there is an increase in students' mathematical thinking skills through the *STEM (Science, Technology, Engineering, Mathematics)* on the subject of the circle. The form of pre-experimental design used in this study was a *one group pretest posttest design.* Based on the analysis of the research results, it was found that the average score of the *pretest* was 40.41 and *posttest* was 83.73 and the *N-Gain* was 0.74, namely the increase in mathematical thinking ability has a high interpretation. So it can be concluded that there is an increase in students' mathematical thinking skills after the *STEM (Science, Technology, Engineering, Mathematics)* to the circle material.

Keywords: Improving Thinking Ability, STEM (Science, Technology, Engineering, Mathematics), Circle