

## ABSTRAK

Rahma Ayu Safitri (1202060075) : Pengaruh Pendekatan *Science Environment Technology and Society* (SETS) Terhadap Kemampuan Literasi Sains Siswa Pada Materi Perubahan Lingkungan

Kemampuan literasi sains merupakan salah satu keterampilan yang diperlukan di abad 21, namun kenyataannya di Indonesia masih tergolong rendah. Tujuan penelitian ini untuk mendeskripsikan hasil kemampuan literasi sains siswa pada materi perubahan lingkungan menggunakan pendekatan *Science, Environment, Technology, And Society (SETS)*. Metode penelitian yang digunakan adalah quasi eksperimen. Sampel penelitian *sampling jenuh*. Subjek penelitian adalah peserta didik kelas X yaitu kelas X MIPA 1 dan X MIPA 2 di SMA Mekar Arum pada semester genap tahun ajaran 2023/2024 dengan jumlah 58 siswa. Instrumen yang digunakan berupa soal uraian kemampuan literasi sains berjumlah 15 soal. Data hasil kemampuan literasi sains berupa nilai rata-rata *pre-test* dan *post-test*, kelas yang menggunakan pendekatan *SETS* yaitu *pre-test* 40 dan *post-test* 86, sedangkan nilai *pre-test* dan *post-test* kelas yang tanpa menggunakan pendekatan *SETS* yaitu *pre-test* 45 dan *post-test* 75. Adapun nilai hipotesis menggunakan Uji *mann whitney* mendapatkan nilai sig *2-tailed*  $0,000 < 0,05$  maka  $H_1$  diterima dan  $H_0$  ditolak. Angket kesulitan peserta didik berdasarkan analisis data 52% peserta didik memiliki kesulitan di dalam proses pembelajaran menggunakan pendekatan *SETS*. Kesimpulan dalam penelitian ini menunjukkan pendekatan *SETS* memperoleh pengaruh signifikan terhadap kemampuan literasi sains siswa pada materi perubahan lingkungan.

**Kata Kunci :** Kemampuan Literasi Sains, Perubahan Lingkungan, *SETS*

## ***ABSTRACT***

Rahma Ayu Safitri (1202060075): The Influence of the Science Environment Approach Technology and Society (SETS) on Students' Scientific Literacy Abilities in Environmental

Change Material Scientific literacy ability is one of the skills needed in this century 21, but in reality in Indonesia it is still relatively low. The purpose of this research to describe the results of students' scientific literacy abilities on change material environment using the Science, Environment, Technology, And approach Society (SETS). The research method used is quasi-experimental. Sample Saturated sampling research. The research subjects were class X students, namely class X MIPA 1 and X MIPA 2 at Mekar Arum High School in the even semester of the academic year 2023/2024 with a total of 58 students. The instrument used is a description question scientific literacy skills totaling 15 questions. Data on scientific literacy abilities in the form of the average score of pre-test and post-test, classes that use the approach SETS is pre-test 40 and post-test 86, while the class pre-test and post-test scores without using the SETS approach, namely pre-test 45 and post-test 75. Meanwhile hypothesis value using the Mann Whitney test to get a 2-tailed sig value  $0.000 < 0.05$  then  $H_1$  is accepted and  $H_0$  is rejected. Student obstacle questionnaire Based on data analysis, 52% of students have obstacles in the process learning uses the SETS approach. Conclusions in this research shows that the SETS approach has a significant influence on students' scientific literacy abilities in environmental change material.

**Keywords:** Scientific Literacy Ability, Environmental Change, SETS