

Laila Nurmegawati. 2026. *Penerapan Model Citizen Science Project Konteks Lokal Madura untuk Meningkatkan Literasi Tanaman dan Identitas Sains*. Skripsi, Program Studi Pendidikan IPA, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura. Pembimbing: Eva Ari Wahyuni, Ph.D.

ABSTRAK

Tujuan penelitian ini adalah untuk mengetahui perbedaan literasi tanaman dan identitas sains siswa antara kelas eksperimen yang menggunakan model *Citizen Science Project* konteks lokal Madura dengan kelas kontrol yang menggunakan model konvensional. Penelitian ini dilakukan di SMPN 1 Tlanakan, Pamekasan. Populasi penelitian yaitu semua siswa kelas IX tahun ajaran 2025/2026. Pengambilan sampel menggunakan teknik *random sampling*. Sampel penelitian sebanyak 24 siswa. Data dikumpulkan menggunakan soal literasi tanaman, angket identitas sains, lembar observasi keterlaksanaan, dan angket respons siswa. Hasil penelitian menunjukkan bahwa: 1) Hasil uji t- sampel bebas menunjukkan taraf signifikansi (sig.) *posttest* sebesar 0,000 yang menunjukkan terdapat perbedaan literasi tanaman antara kelas eksperimen dan kelas kontrol, 2) Hasil *N-gain* soal literasi tanaman untuk kelas eksperimen sebesar 57,6% pada kategori sedang setelah penerapan model pembelajaran *Citizen Science Project* konteks lokal Madura, sedangkan untuk kelas kontrol sebesar 34,4% pada kategori sedang, 3) Hasil uji *Mann Whitney U* menunjukkan taraf signifikansi (sig.) *posttest* sebesar 0,000 yang menunjukkan ada perbedaan identitas sains siswa antara kelas kontrol dan kelas eksperimen, 4) Rata-rata hasil observasi keterlaksanaan pembelajaran yaitu 89,9% dengan kategori sangat baik, 5) Rata-rata persentase respons siswa terhadap pembelajaran *Citizen Science Project* adalah 80,02% dengan kategori baik.

Kata kunci: *Citizen Science Project*, Literasi Tanaman, Identitas Sains

Laila Nurmegawati. 2026. *Implementation of the Citizen Science Project Model in the Local Context of Madura to Improve Plant Literacy and Science Identity*. Skripsi, Science Education Program, Faculty of Teacher Training and Education, Trunodjoyo University of Madura. Advisor: Eva Ari Wahyuni, Ph.D.

ABSTRACT

The purpose of this study was to determine the differences in students' plant literacy and science identity between the experimental class, which used the Citizen Science Project model in the local context of Madura, and the control class, which used the conventional model. This study was conducted at SMPN 1 Tlanakan, Pamekasan. The study population consisted of all ninth-grade students in the 2025/2026 academic year. Sampling was conducted using random sampling. The research sample consisted of 24 students. Data were collected using plant literacy questions, a science identity questionnaire, an implementation observation sheet, and a student response questionnaire. The results of the study indicate that: 1) The results of the independent samples t-test showed a posttest significance level (sig.) of 0.000, indicating a difference in plant literacy between the experimental class and control classes. 2) The N-gain score for plant literacy questions in the experimental class was 57.6% in the moderate category following the implementation of the Citizen Science Project learning model in the local Madura context, while for the control class, it was 34.4% in the moderate category. 3) The results of the Mann-Whitney U test showed a posttest significance level (sig.) of 0.000, indicating a difference in students' science identities between the control and experimental classes; 4) The average score for the implementation observation was 89.9%, categorized as very good; 5) The average percentage of students' responses to the Citizen Science Project learning was 80.02%, falling into the good category.

Keywords: *Citizen Science Project, Plant Literacy, Science Identity*