

ABSTRAK

Sarkila Rusdi, 2024. Pengaruh Model *Problem Based Learning* Berbasis *Socio Scientific Issues* Terhadap Kemampuan Literasi Kimia Peserta Didik Kelas XI pada Materi Sistem Koloid di SMA Negeri 5 Halmahera Tengah. Pembimbing. Nurfatimah Sugrah dan Nur Jannah Baturante.

Penelitian ini dilakukan untuk mengetahui pengaruh model *problem based learning* berbasis *socio scientific issues* terhadap kemampuan literasi kimia peserta didik kelas XI pada materi sistem koloid di SMA Negeri 5 Halmahera Tengah. Jenis penelitian ini adalah penelitian eksperimen menggunakan desain *one group pretest-posttest*. Sampel dalam penelitian ini adalah seluruh siswa kelas XI IPA SMA Negeri 5 Halmahera Tengah tahun ajaran 2024/2025 yang berjumlah 16 siswa yang terdiri hanya satu kelas. Teknik pengambilan sampel digunakan ialah sampling jenuh atau semua populasi dijadikan sampel. Instrumen yang digunakan dalam penelitian ini berupa soal essay sebanyak 13 item yang digunakan untuk mengukur kemampuan literasi kimia peserta didik, dan angket untuk mengetahui tanggapan siswa terhadap model pembelajaran yang telah diterapkan. Teknik analisis data, data statistik menggunakan SPSS windosw versional 21.0 signifikan $< 0,05$ atau $0,000 < 0,05$, hasil uji hipotesis diperoleh $t_{hitung} > t_{tabel}$ atau $4,734 > 1,753$ maka H_a di terima dan H_0 di tolak. Besar pengaruh model *problem based learning* berbasis *socio scientific issues* terhadap kemampuan literasi kimia peserta didik diperoleh dari nilai gain sebesar 50% dengan kategori kurang efektif.

Kata Kunci: *Problem Based Learning* (PBL), *Socio Scientific Issues* (SSI), Kemampuan Literasi Kimia, Sistem Koloid

ABSTRACT

Sarkila Rusdi, 2024. The Effect of the Problem Based Learning Model Based on Socio Scientific Issues on the Chemical Literacy Ability of Class XI Student on Colloidal System Material at SMA Negeri 5 Central Halmahera. Sepervisors Nurfatimah Sugrah and Nurjannah Baturante.

This research was conducted to determine the problem based learning model based on socio scientific issues on the chemical literacy abilities of class XI students on colloid system material at SMA Negeri 5 Central Halmahera. This type of reseatch is experimental research using a one group pretest posttest design. The sample in this research is all students in class. The sampling technique used is saturated sampling or the entire population is sampled. The instrumen used in this research were 13 item essay questions which were used to measure students chemical literacy skills, and a questionnaire to determine students response to the learning model that had been implemented. Data analysis technique, statistical data using SPSS windows version 21.0 is significant $< 0,05$ or $0,000 > 0,005$, the results of the hypotesis test are obtained by tabular data or $4.734 > 1,753$, so H_a is accepted and H_0 is rejected. The big influence of the problem based laerning model based on socio scientific issues on students chemical literacy abilities was obtained from a gain value of 50% in the less effektive category.

Keyword : Problem Based Learning, Socio Scientific Issues, Chemical Literacy Ability, System Colloid