

ABSTRAK

Mawardaniati: Pengaruh Model Pembelajaran Inkuiri Terbimbing terhadap Pemahaman Konsep dan *Learning Engagement* siswa Pada Materi Sistem Kolois di MAS Jabal Nur. **Program Studi Pendidikan Kimia FKIP Universitas Malikussaleh, 2026.**

Penelitian ini dilakukan bertujuan untuk mengetahui pengaruh model pembelajaran inkuiri terbimbing terhadap pemahaman konsep dan *learning engagement* siswa pada materi sistem koloid. Penelitian ini dilakukan di MAS Jabal Nur pada semester genap tahun pelajaran 2025/2026. Penelitian ini menggunakan pendekatan kuantitatif dengan jenis penelitian *pre-Experimental* dan menggunakan desain penelitian *Intact Group Comparison*. Populasi dari penelitian ini adalah siswa kelas XI yang terdiri dari 4 kelas dan sampel yang digunakan dalam penelitian ini adalah kelas XI-1 sebanyak 27 siswa sebagai kelas Eksperimen dan XI-4 sebanyak 20 siswa sebagai kelas kontrol. Teknik pengambilan sampel pada penelitian ini menggunakan *purposive sampling* dimana sampel diambil berdasarkan kriteria tertentu. Analisis data Instrumen pada penelitian ini menggunakan tes tertulis (*posttest*) dan non tes. instrumen tes yang digunakan untuk mengukur pemahaman konsep menggunakan soal *Two Tier Multiple Choise* sedangkan instrumen non tes yang digunakan untuk mengukur *learning engagement* siswa menggunakan lembar observasi, dimana kedua instrumen tersebut sudah divalidasi oleh ahli dan sudah melalui uji prasyarat. Data hasil penelitian dianalisis menggunakan software SPSS 25 for windows. Hasil pengujian mengukur pemahaman konsep siswa menggunakan *uji independent sample t-test* diperoleh nilai sig. (2 tailed) sebesar $0,000 < 0,05$, Sedangkan hasil pengukuran *learning engagement* siswa menggunakan *uji mann whitney u* memperoleh nilai Asymp. Sig. (2-tailed) yaitu $0,000 < 0,05$. Berdasarkan hasil pengujian tersebut dapat disimpulkan bahwa model pembelajaran inkuiri terbimbing berpengaruh secara signifikan terhadap pemahaman konsep dan *learning engagement* siswa pada materi sistem koloid di MAS Jabal Nur. Hasil analisis tersebut menunjukkan adanya pengaruh positif model pembelajaran inkuiri terbimbing terhadap pemahaman konsep dan *learning engagement* siswa.

Kata Kunci: Model Pembelajaran Inkuiri Terbimbing, Pemahaman Konsep, *Learning Engagement*, Sistem Koloid.

ABSTRACT

Mawardaniati: *The Effect of the Guided Inquiry Learning Model on Students' Conceptual Understanding and Learning Engagement in the Colloidal System Topic at MAS Jabal Nur. Chemistry Education Study Program, Faculty of Teacher Training and Education, Malikussaleh University, 2026.*

This study aimed to determine the effect of the guided inquiry learning model on students' conceptual understanding and learning engagement in the topic of colloidal systems. The research was conducted at MAS Jabal Nur during the second semester of the 2025/2026 academic year. This study employed a quantitative approach using a pre-experimental research design with the Intact Group Comparison design. The population consisted of four eleventh-grade classes, and the sample was selected using purposive sampling based on specific criteria. Class XI-1, consisting of 27 students, served as the experimental group, while Class XI-4, consisting of 20 students, served as the control group. The research instruments included both test and non-test instruments. Students' conceptual understanding was measured using a written post-test consisting of Two-Tier Multiple-Choice questions, while students' learning engagement was assessed using an observation sheet. Both instruments had been validated by experts and had met the prerequisite testing requirements. The research data were analyzed using SPSS version 25 for Windows. The results of the independent samples t-test for students' conceptual understanding showed a significance value (Sig. 2-tailed) of 0.000, which was lower than 0.05. Meanwhile, the Mann-Whitney U test used to analyze students' learning engagement produced an Asymp. Sig. (2-tailed) value of 0.000, which was also lower than 0.05. Based on these findings, it can be concluded that the guided inquiry learning model had a significant effect on both students' conceptual understanding and learning engagement in the colloidal system topic at MAS Jabal Nur. Furthermore, the results indicate that the guided inquiry learning model had a positive effect on improving students' conceptual understanding and learning engagement.

Keywords: *Guided Inquiry Learning Model, Conceptual Understanding, Learning Engagement, Colloidal System.*