

ABSTRAK

Lenarti Vatrissia Gultom: Analisis keterampilan proses sains peserta didik pada materi gelombang bunyi. **Program Studi Pendidikan Fisika, Fakultas Keguruan dan Ilmu Pendidikan, UNIVERSITAS MALIKUSALEH, 2025.**

Penelitian ini bertujuan untuk menganalisis keterampilan proses sains peserta didik pada materi gelombang bunyi. Keterampilan proses sains merupakan kemampuan dasar dalam memahami dan menerapkan proses ilmiah, yang mencakup sepuluh indikator yaitu: mengamati, mengklasifikasi, menafsirkan, memprediksi, mengajukan pertanyaan, merumuskan hipotesis, merencanakan percobaan, menerapkan konsep, menggunakan alat dan bahan, serta mengomunikasikan hasil.

Metode penelitian yang digunakan adalah deskriptif kuantitatif. Subjek penelitian adalah peserta didik kelas XI di SMA Negeri 1 Gandapura semester genap tahun ajaran 2025/2026. Instrumen yang digunakan berupa soal tes essay berbasis indikator keterampilan proses sains. Data yang diperoleh dianalisis secara deskriptif berdasarkan nilai rata-rata pada masing-masing indikator.

Hasil penelitian menunjukkan bahwa keterampilan proses sains peserta didik tergolong kategori sedang, dengan nilai rata-rata keseluruhan sebesar 68,8. Indikator dengan nilai tertinggi adalah mengelompokkan sebesar 87,5, sedangkan indikator dengan nilai terendah adalah merencanakan percobaan sebesar 51,6. Hasil ini menunjukkan bahwa peserta didik telah cukup baik dalam menerapkan proses ilmiah, namun masih perlu peningkatan pada indikator berhipotesis, menggunakan alat dan bahan, merencanakan percobaan, meramalkan dan mengajukan pertanyaan.

Kata kunci: keterampilan proses sains, gelombang bunyi, analisis deskriptif kuantitatif

ABSTRACT

Lenarti Vatrissia Gultom: Analysis of students' science process skills on sound wave material. **Physics Education Study Program, Faculty of Teacher Training and Education, UNIVERSITAS MALIKUSSALEH, 2025.**

This study aims to analyze students' science process skills in the topic of sound waves. science process skills are fundamental abilities in understanding and applying scientific processes, which include ten indicators: observing, classifying, interpreting, predicting, asking questions, formulating hypotheses, designing experiments, applying concepts, using tools and materials, and communicating results.

The research method used was quantitative descriptive. The subjects were eleventh-grade students at SMA Negeri 1 Gandapura in the even semester of the 2025/2026 academic year. The instrument used was an essay test developed based on SPS indicators. The collected data were analyzed descriptively by calculating the average scores for each indicator.

The results showed that students' science process skills were in the moderate category, with an overall average score of 68,8. The highest scoring indicator was classifying with a score of 87,5, while the lowest was designing experiments with a score of 51,6. These results indicate that students have demonstrated adequate scientific skills, although improvement is still needed in several indicators such as formulating hypotheses, using tools and materials, designing experiments, predicting, and asking questions.

Keywords : science process skills, sound waves, analysis quantitative descriptive