

ABSTRAK

Winda Arliza, NIM 4181121015 (2024), Analisis Kesulitan Siswa dalam Menyelesaikan Soal Berbasis Kemampuan Pemecahan Masalah Pada Materi Fluida Dinamis di SMA/MA Kota Medan.

Penelitian ini bertujuan untuk mengetahui tingkat kemampuan pemecahan masalah siswa dan mengetahui kesulitan yang dialami siswa dalam menyelesaikan masalah berdasarkan kemampuan pemecahan masalah pada materi fluida dinamis. Jenis penelitian ini adalah penelitian kualitatif. Teknik pengambilan sampel data dalam penelitian ini menggunakan teknik *purposive sampling*. Subjek dalam penelitian ini adalah siswa kelas XI SMA/MA Kota Medan. Tingkat kemampuan pemecahan masalah siswa berdasarkan tinggi, sedang dan rendah nilai yang diperoleh siswa. Kesulitan siswa dalam menyelesaikan soal tiap tahapan pemecahan masalah termasuk kategori sedang pada tahap memfokuskan dan mendeskripsikan masalah, sedangkan kategori rendah pada tahapan menyusun rencana, mengeksekusi atau melaksanakan rencana dan mengevaluasi hasil. Kesulitan yang dialami siswa dalam menyelesaikan masalah terdapat beberapa kesulitan diantaranya yaitu kesulitan dalam memahami soal, kesulitan dalam menentukan besaran dan satuan fisika, kesulitan dalam menentukan rumus, dan kesulitan dalam berhitung secara matematis.

Kata Kunci : Analisis Kesulitan, Kemampuan Pemecahan Masalah Heller, Fluida Dinamis



ABSTRACT

Winda Arliza, NIM 4181121015 (2024), Analysis of Students' Difficulties in Solving Problems Based on Problem Solving Ability on Dynamic Fluid Material in Senior High Schools/Vocational High Schools in Medan City.

This study aims to determine the level of students' problem-solving abilities and to determine the difficulties experienced by students in solving problems based on problem-solving abilities in dynamic fluid material. This type of research is qualitative research. The data sampling technique in this study uses *purposive sampling* technique. The subjects in this study were students of grade XI of SMA/MA Medan City. The level of students' problem-solving ability was based on high, medium and low scores obtained by students. Students' difficulties in solving problems at each stage of problem solving were categorized as medium at the stage of focusing and describing the problem, while the low category was at the stage of making plans, executing or implementing plans and evaluating results. The difficulties experienced by students in solving problems include several difficulties, including difficulties in understanding questions, difficulties in determining physical quantities and units, difficulties in determining formulas, and difficulties in calculating mathematically.

Keywords: Difficulty Analysis, Heller's Problem Solving Ability, Dynamic Fluids

