

Rimbi Arina Syakbani RH. 2021. *Analisis Kemampuan Pemecahan Masalah Open Ended Siswa SMP Pada Materi Getaran, Gelombang, dan Bunyi*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura, Pembimbing: Yunin Hidayati.

ABSTRAK

Penelitian ini memiliki tujuan untuk: 1) mengetahui persentase kemampuan pemecahan masalah *open ended* siswa SMP pada materi getaran, gelombang, bunyi, 2) Mengetahui tingkat kemampuan pemecahan masalah *open ended* siswa SMP pada materi getaran, gelombang, bunyi. Materi pokok yang digunakan pada penelitian ini yaitu getaran, gelombang, dan bunyi. Metode yang digunakan pada penelitian ini yaitu kuantitatif deskriptif. Sampel yang digunakan pada penelitian ini yakni 15 siswa, sedangkan instrumen yang digunakan yakni tes kemampuan pemecahan masalah *open ended* sebanyak 3 soal uraian. Hasil penelitian yang diperoleh menunjukkan bahwa kemampuan pemecahan masalah *open ended* di Kampung Lebak Pangeranan Bangkalan termasuk kriteria cukup dengan nilai rata-rata 67,87%. Berdasarkan 4 indikator kemampuan pemecahan masalah *open ended* diperoleh hasil persentase dengan kriteria sangat baik yaitu indikator memahami masalah sebesar 87,20% dan hasil persentase dengan kriteria kurang yaitu indikator memeriksa kembali proses dan hasil penyelesaian masalah sebesar 53,30%. Adapun siswa yang memiliki kemampuan pemecahan masalah *open ended* kriteria sangat baik sejumlah 5 siswa, 3 siswa dengan kriteria baik, 2 siswa dengan kriteria cukup, 3 siswa dengan kriteria kurang dan 2 siswa dengan kriteria kurang baik.

Kata kunci : kemampuan pemecahan masalah, *open ended*, getaran gelombang, dan bunyi.

Rimbi Arina Syakbani RH. 2021. Analysis of Open Ended Problem Solving Skills for Middle School Students on Vibration, Waves, Sound. Thesis, Science Education Study Program, Faculty of Education, Trunojoyo University Madura, Supervisor: Yunin Hidayati

ABSTARCK

This study has the objectives to: 1) determine the percentage of open ended problem solving skills of junior high school students on vibration, waves, sound, 2) find out the level of open ended problem solving ability of junior high school students on vibration, waves, sound. The main materials used in this study are vibration, waves, and sound. The method used in this research is descriptive quantitative. The sample used in this study was 15 students, while the instrument used was an open-ended problem-solving ability test with 3 description questions. The results obtained indicate that the ability to solve open ended problems in Kampung Lebak Pangeranan Bangkalan includes sufficient criteria with an average value of 67.87%. Based on 4 indicators of open ended problem solving ability, the percentage results with very good criteria, namely the indicator of understanding the problem of 87.20% and the percentage of results with less criteria, namely the indicator of re-examining the process and the results of problem solving of 53.30%. The students who have open ended problem solving skills with very good criteria are 5 students, 3 students with good criteria, 2 students with sufficient criteria, 3 students with poor criteria and 2 students with poor criteria.

Keywords : problem solving skill, *open ended* , vibrations waves and sound.