

Nafarida Alwiyah. 2020. *Analisis Kemampuan Multirepresentasi pada Materi Getaran, Gelombang dan Bunyi*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing Eva Ari Wahyuni

ABSTRAK

Tujuan Penelitian ini adalah untuk mengetahui tingkat kemampuan multirepresentasi siswa SMPN 3 Sugio di desa Daliwangun, Kecamatan Sugio, Kabupaten Lamongan pada materi Getaran, Gelombang, dan Bunyi. Penelitian ini menggunakan metode kuantitatif dengan desain penelitian deskriptif kuantitatif. Subjek penelitian ini yaitu siswa kelas IX A dan IX B tahun ajaran 2024/2025. Pengambilan sampel menggunakan teknik *purposive sampling*. Sampel penelitian sebanyak 61 siswa. Data dikumpulkan dengan menggunakan soal tes kemampuan multirepresentasi. Hasil penelitian menunjukkan bahwa: 1) tingkat kemampuan multirepresentasi pada materi getaran, gelombang dan bunyi, siswa pada kategori tinggi 13%, kategori sedang 74% dan kategori rendah 13%. 2) perbedaan jenis kemampuan multirepresentasi diperoleh persentase kemampuan representasi verbal 15%, persentase kemampuan representasi simbolik 10%, dan persentase kemampuan representasi gambar 20%. Dari hasil yang diperoleh perbedaannya dapat dilihat cukup jauh jika dirata persentase kemampuan multirepresentasi siswa SMPN 3 Sugio adalah 46% dapat dikatakan bahwa kemampuan multirepresentasi siswa SMPN 3 Sugio relatif sedang.

Kata Kunci: Analisis, Getaran, Gelombang dan Bunyi, Kemampuan Multirepresentasi.

Nafarida Alwiyah. 2020. *Analysis of Multirepresentation Ability on Vibration, Wave, and Sound Materials*. Thesis, Department of Natural Science Education, Faculty of Education Science, Universitas Trunojoyo Madura. Supervisor Eva Ari Wahyuni

ABSTRACT

The purpose of this study was to determine the level of multirepresentation ability of SMPN 3 Sugio students in Daliwangun village, Sugio Subdistrict, Lamongan Regency on the material of Vibration, Wave, and Sound. This research used quantitative method with quantitative descriptive research design. The subjects of this study were students in grades IX A and IX B in the 2024/2025 school year. Sampling using purposive sampling technique. The research sample was 61 students. Data were collected using multirepresentation ability test questions. The results showed that: 1) the level of multirepresentation ability on vibration, wave and sound material, students in the high category 13%, medium category 74% and low category 13%. 2) the difference in the type of multirepresentation ability obtained the percentage of verbal representation ability 15%, the percentage of symbolic representation ability 10%, and the percentage of image representation ability 20%. From the results obtained, the difference can be seen quite far if averaged the percentage of multirepresentation ability of SMPN 3 Sugio students is 46%, it can be said that the multirepresentation ability of SMPN 3 Sugio students is relatively moderate.

Keywords: *Analysis, Vibration, Wave and Sound, Multirepresentation Ability.*