

Muhabbatun Nisa'. 2020. *Analisis Miskonsepsi pada Materi Tekanan Zat di SMP Menggunakan Four Tier Diagnostic Test*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura.
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ABSTRAK

Penelitian ini bertujuan untuk mengetahui persentase miskonsepsi dan penyebab terjadinya miskonsepsi pada siswa. Penelitian ini menggunakan metode penelitian gabungan dengan desain penelitian *Explanatory Sequential Design* dan dilaksanakan di UPTD SMPN 2 Bangkalan dengan populasi semua siswa kelas VIII Tahun Ajaran 2019/2020. Sampel penelitian yaitu kelas VIII G menggunakan teknik *Purposive sampling*. Instrumen yang digunakan adalah soal tes berupa *Four Tier Diagnostik Test* dan wawancara. Teknik analisis data dilakukan secara kuantitatif dan kualitatif berdasarkan hasil tes dan wawancara. Hasil penelitian ini menunjukkan bahwa 27% siswa mengalami miskonsepsi pada materi tekanan zat. Persentase miskonsepsi siswa pada sub-konsep tekanan zat padat sebesar 30%, sub-konsep tekanan hidrostatis 28%, sub-konsep hukum Archimedes 18%, sub-konsep hukum pascal 16%, sub-konsep tekanan zat gas 38% dan sub-konsep aplikasi tekanan zat pada makhluk hidup sebesar 25%. Secara keseluruhan miskonsepsi siswa dalam kategori miskonsepsi sedang.

Kata kunci: *Four Tier Diagnostic Test*, Miskonsepsi, Tekanan Zat.

Muhabbatun Nisa'. 2020. *Analysis of Misconceptions on Substance Pressure Material of Junior High School Using four Tier Diagnostic Test*. Skripsi, Science Education Department, Faculty of Education. Trunojoyo University. Madura. Advisors: Fatimatul Munawaroh, S.Si., M.Si and Mohammad. Yasir, S.Pd., M.Pd

ABSTRACT

This study aims to know the percentage of misconceptions and cause of misconceptions to students. This study used a combined research method with Explanatory Sequential design and was carried out at UPTD SMPN 2 Bangkalan with a population of all students of class VIII in academic year 2019/2020. The sample of the research used purposive sampling technique. The instrument used was a test item in the form of a Four Tier Diagnostic Test and interview. The data analysis technique were carried out quantitative and qualitative based on the test and interview. The result of the study showed that 27% of students experience misconceptions on substance pressure material. The percentage of students misconceptions of students misconception on the solid pressure sub-concept was 30% , the hydrostatic pressure sub-concept 28%, the archimides law sub-concept 18%, the pascal law sub-concept gas pressure 38% and the sub-concept application of substance pressure on living things by 25%. Overall students misconceptions are in category of moderate misconceptions.

Keywords: Four Tier Diagnostic Test, Misconception, Pressure Materials.