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ABSTRAK

Penelitian ini bertujuan untuk mengetahui kemampuan pemahaman konsep siswa dari soal pemahaman konsep IPA berdasarkan hasil analisis dari aspek validitas dan reliabilitas. Jenis penelitian ini yaitu kuantitatif dengan menggunakan metode deskriptif. Penelitian dilaksanakan di MTs NU Diponegoro Kedungtuban dengan sampel penelitian sebanyak 18 siswa kelas VIII Tahun Ajaran 2020/2023. Penelitian ini menggunakan desain *ex post facto*. Pengumpulan data menggunakan teknik observasi, dokumentasi dan tes. Data dianalisis menggunakan rumus. Berdasarkan hasil penelitian dapat disimpulkan bahwa instrument soal memiliki validitas yang layak digunakan dengan rata-rata 76% dan reliabilitas yang sudah reliabel dengan jumlah 96%. Rata-rata nilai siswa yang diperoleh sejumlah 73.

Kata kunci : Pembelajaran IPA, Pemahaman Konsep IPA, Zat Aditif dan Zat Adiktif

Ulya Inayati Fidiana. 2023. *Analysis of the Understanding of Science Concepts of MTs NU Diponegoro Kedungtuban Students on the Material of Additives and Addictive Substances*. Thesis, Natural Science Education Study Program, Education Department, Education Faculty, University of Trunojoyo Madura. Advisor 1st: Mochammad Ahied and Advisor 2nd: Aida Fikriyah.

ABSTRACT

This research aimed to determine students' conceptual understanding abilities from questions of understanding science concepts based on the results of an analysis of the aspects of validity and reliability. This type of research is quantitative using descriptive methods. The research was conducted at MTs NU Diponegoro Kedungtuban with a research sample of 18 students of the class VIII for the 2020/2023 Academic Year. This study used an ex post facto design. Collecting data using observation techniques, documentation and tests. Data were analyzed using formulas. Based on the results of the study it can be concluded that the question instrument has a validity that is suitable for use with an average of 76% and reliability that is already reliable with a total of 96%. The average student score obtained is 73.

Keywords: science learning, understanding of science concepts, additives and addictive substance