

ABSTRAK

Siti Fatima. 2020. *Analisis Kemampuan Kognitif Siswa dalam Menyelesaikan Soal Materi Sistem Tata Surya Berintegrasi Etnosains*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing 1: Mochammad Ahied dan Pembimbing 2 : Wiwin Puspita Hadi.

Penelitian ini bertujuan untuk mengetahui kemampuan kognitif siswa dalam menyelesaikan soal materi sistem tata surya berintegrasi etnosains. Metode penelitian adalah *mix method* dengan desain *sequential explanatory* yang menggabungkan metode penelitian kuantitatif dengan metode penelitian kualitatif secara berurutan. Pengumpulan data dilakukan menggunakan metode observasi, tes, angket, wawancara dan dokumentasi. Subjek dalam penelitian ini adalah 20 orang siswa. Hasil penelitian menunjukkan (1) Kemampuan kognitif siswa dalam menyelesaikan soal materi sistem tata surya berintegrasi etnosains ranah kognitif C4 berkategori tinggi dan kemampuan kognitif siswa ranah kognitif C5 berkategori sedang (2) Persentase kemampuan kognitif siswa dalam menyelesaikan soal berintegrasi etnosains pada indikator ranah kognitif C4 adalah 63% sedangkan persentase kemampuan kognitif pada ranah C5 adalah 52% dengan rata-rata kemampuan kognitif siswa sebesar 60% (berkategori sedang) (3) Rata-rata hasil respon siswa dalam menyelesaikan soal materi sistem tata surya berintegrasi etnosains adalah siswa merasa kurang mampu menyelesaikan soal berintegrasi etnosains dengan persentase jawaban setuju (mampu) sebesar 81,5% dan persentase jawaban tidak setuju (tidak mampu) sebesar 18,5%.

Kata kunci : etnosains, kemampuan kognitif, system tata surya

ABSTRACT

Siti Fatima. 2020. *Analysis of Student Cognitive Abilities in Solving Material Problems in The Integrated Solar System Ethnics*. Thesis, Science Education Study Program, Faculty of Education, University of Trunojoyo Madura. Advisor 1 : Mochammad Ahied and Advisor 2: Wiwin Puspita Hadi.

This research aims to determine the cognitive abilities of student in solving material problem in the integrated solar system ethnics. The reseach method is a mix method with sequential explanaroty design that combines quantitative reseach methods with qualitative sequentially. The technique of collecting data is using the method of observation, test, questionnaires, interviews and documentation. The subjects in this study were 20 students. Reseach results show (1) Students cognitive abilities in solving solar system material problems integrated with ethnich C4 cognitive domains are of high category and cognitive abilities of C5 cognitive domain students are in the medium category (2) The percentage of students cognitive abilities in solving questions integrated with ethnics in the cognitive domain indicator C4 is 63% while the percentage of cognitive abilities in the C5 domain is 52% with an average cognitive ability of students of 60% (medium category) (3) The average students response results in solving material problems with the integrated solar system ethnoscience is studnets feel less able to solve questions integrated into ethnics with the percentage of answer agreeing (able) 81,5% and the percentage of answer disagreeing (unable) 18,5%.

Keyword : ethnoscience, cognitive abilities, solar system

