

Dian Sri Utami. 2020. *Analisis Scientific Reasoning Ability Siswa Dalam Menyelesaikan Soal Uraian Materi Gerak Benda*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing 1: Laila Khamsatul Muharrami dan Pembimbing 2: Wiwin Puspita Hadi.

ABSTRAK

Penelitian ini bertujuan untuk mengetahui presentase dan tingkat *Scientific Reasoning Ability* (SRA) siswa dalam menyelesaikan soal uraian materi gerak benda serta faktor-faktor yang mempengaruhi SRA siswa. Desain penelitian menggunakan *mix design*. Teknik pengambilan sampel menggunakan *nonprobability sampling* jenis *purposive sampling* dengan sampel kelas VIII A sebanyak 31 siswa di SMPN 9 Gresik. Pengumpulan data menggunakan tes 3 soal uraian yang disesuaikan dengan indikator SRA dan wawancara. Hasil penelitian menunjukkan bahwa tipe jawaban SRA siswa pada indikator *Correlational Reasoning* adalah *Intutive* 32,25%, *No Relationship* 12,9%, dan *One Cell* 54,8%. Pada indikator *Probabilistic Reasoning* tidak menjawab 9,7% dan *Intutive* 90,3%. Pada indikator *Proportional Reasoning* tidak menjawab 48,4% dan *Intutive* 51,6%. Persentase kemampuan tiap indikator SRA yaitu *Correlational Reasoning* 61% (baik), *Probabilistic Reasoning* 24,8% (kurang), dan *Proportional Reasoning* 14,2% (sangat kurang). Sehingga, dapat disimpulkan bahwa SRA siswa tergolong dalam level rendah. Faktor yang mempengaruhi SRA siswa rendah adalah metode pembelajaran yang digunakan guru, siswa belum memahami konsep, dan kurang memanfaatkan waktu dalam mengerjakan soal uraian.

Kata kunci: Gerak Benda, *Scientific Reasoning Ability*, Soal Uraian.

Dian Sri Utami. 2020. *Analysis of Scientific Reasoning Ability Students in Solving Essay Question of Material Motion Objects*. Thesis, Natural Science Education, Education Faculty, University of Trunojoyo Madura. 1st Advisor: Laila Khamsatul Muharrami and 2nd Advisor: Wiwin Puspita Hadi.

ABSTRACT

The aims of the research were to know the percentage and level of Scientific Reasoning Ability (SRA) students in solving essay question of material motion objects and the factors that influence. The research design uses a mix design. The sampling technique in this study used nonprobability sampling type purposive sampling with samples class VIII A as many as 31 students at SMPN 9 Gresik. Data collection using 3 essay question test adjusted for the SRA indicators and interviews. The results showed that the type question SRA of students in Correlational Reasoning indicator is Intutive 32,25%, No Relationship 12,9%, and One Cell 54,8%. In Probabilistic Reasoning is no question 9,7% and Intutive 90,3%. In Proportional Reasoning is no question 48,4% and Intutive 51,6%. The percentage ability of each SRA indicator is Correlational Reasoning 61% (good), Probabilistic Reasoning 24,8% (less), dan Proportional Reasoning 14,2% (extreme less). So, it can be concluded that the SRA of students is classified at the low level. The influencing factor of SRA student low is the learning method used by the teacher, students do not yet understand the concept, and do not utilize the time in working essay.

Keywords: Object Motion, Scientific Reasoning Ability, Essay.