

Sahriyah. 2021. *Analisis Scientific Reasoning Siswa Pada Materi Interaksi Antara Makhluk Hidup Dan Lingkungannya*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura.

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ABSTRAK

Scientific Reasoning merupakan kemampuan berpikir yang logis dan sistematis. Penelitian dilakukan dengan tujuan untuk mengetahui kemampuan *Scientific Reasoning* siswa pada materi interaksi antara makhluk hidup dengan lingkungannya. Penelitian ini dilakukan di SMP Al-Hikam Burneh, kelas VII E pada tahun ajaran 2020/2021. Jenis penelitian ini adalah *Mixed Method*. Sampel yang digunakan 1 kelas dengan jumlah 34 siswa. Soal tes yang gunakan sebanyak 3 soal dengan 3 jenis indikator yaitu Indikator *Conservation Reasoning*, indikator *Probabilistic Reasoning* dan indikator *Proportional Reasoning*. Hasil penelitian menunjukkan Persentase indikator *Conservation Reasoning* sebanyak 38,4%. Persentase pada indikator *Probabilistic Reasoning* sebesar 30,2 % dan, indikator *Proportional Reasoning* sebanyak 31,4%, level tipe jawaban dari siswa tiap indikator nilainya rendah. Kemampuan *Scientific Reasoning* siswa pada materi interaksi antara makhluk hidup dan lingkungannya masih rendah . Faktor yang menyebabkan *Scientific Reasoning* siswa rendah yaitu Siswa masih bingung dengan soal yang berbentuk penalaran, siswa kesulitan dikarenakan belum terbiasa mengerjakan soal penalaran.

Kata Kunci : *Conservation, Probabilistic, Proportional dan Scientific Reasoning*

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ABSTRACT

Scientific Reasoning is the ability to think logically and systematically. The research was conducted to know the students' Scientific Reasoning ability on the interaction between living things and their environment. This research was conducted at SMP Al-Hikam Burneh, class VII E in the 2020/2021 school year. This type of research is Mixed Method. The sample used is 1 class with a total of 34 students. The test questions that use 3 questions with 3 types of indicators are the Conservation Reasoning Indicator, the Probabilistic Reasoning indicator, and the Proportional Reasoning indicator. The results showed that the percentage of the Conservation Reasoning indicator was 38.4%. The percentage of the Probabilistic Reasoning indicator is 30.2% and the Proportional Reasoning indicator is 31.4%. The level of the student's answer type for each indicator is low. The scientific Reasoning ability of students on the material interaction between living things and their environment is still low. Factors that cause low Scientific Reasoning students are still confused with questions in the form of reasoning, students have difficulty because they are not used to working on reasoning questions.

Keywords: Conservation, Probabilistic, Proportional, dan Scientific Reasoning.