

Hidayatur Rohmaniyah. 2020. *Analisis Kemampuan Literasi Sains Aspek Kompetensi pada Materi Suhu dan Kalor di SMPN 17 Balikpapan*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing 1: Fatimatul Munawaroh dan Pembimbing 2: Mochammad Yasir.

ABSTRAK

Hasil tes literasi sains siswa yang rendah pada aspek kompetensi dan kebiasaan siswa dalam menyelesaikan soal literasi sains yang mengacu pada aspek kompetensi yang masih kurang, maka dilakukan penelitian yang menganalisis kemampuan literasi sains aspek kompetensi pada materi suhu dan kalor. Penelitian menggunakan desain penelitian kualitatif model Miles dan Huberman. Penelitian dilaksanakan di SMPN 17 Balikpapan tahun ajaran 2019/ 2020 dengan populasi kelas 7 SMPN 17 Balikpapan. Teknik pengambilan sampel menggunakan *purposive ssampling*. Sampel berjumlah 20 siswa yang diambil dari kelas 7E, 7F, dan 7G. Data penelitian dikumpulkan dengan teknik tes kemampuan literasi sains. Hasil penelitian menunjukkan bahwa hasil belajar siswa ditinjau dari tes literasi sains terdiri dari 25% siswa dengan kriteria sangat kurang sekali, 70% siswa dengan kriteria kurang baik, dan 5% siswa dengan kriteria cukup baik. Kemampuan siswa ditinjau dari tiap indikator aspek kompetensi literasi sains yaitu 70% pada indikator 1 (mengingat dan menerapkan pengetahuan sains yang sesuai), 60% pada indikator 8 (mengusulkan cara mengeksplorasi pertanyaan yang diberikan secara ilmiah), 55% pada indikator 11 (mengubah data dari satu representasi ke yang lain), sedangkan pada indikator lain persentase berada dibawah 55%. Kemampuan siswa ditinjau dari pencapaian ranah kognitif pada ranah C3 sudah baik, sedangkan pada ranah kognitif tingkat tinggi seperti C4, C5, dan C6 masih kurang. Rendahnya kemampuan siswa menganalisis grafik, proses belajar IPA yang kurang bermakna, serta cara belajar siswa yang hanya sebatas mengingat dan menghafal.

Kata kunci: Aspek kompetensi, literasi sains, suhu dan kalor

Hidayatur Rohmaniyah. 2020. *Analysis of Science Literacy Skills Aspect Competency on Temperature Material and Heat in the SMPN 17 Balikpapan*. Thesis, Natural Science Education, Education Faculty, University of Trunojoyo Madura. 1st Advisor: Fatimatul Munawaroh and 2nd Advisor: Mochammad Yasir.

ABSTRACT

The results of the students' science literacy test are low on the competency and habit aspects of students in solving the science literacy problem that refers to the competency aspects that are still lacking, then conducted a study that analyzes the ability of science literacy skills aspect competency in temperature material and heat. Research using qualitative research design model Miles and Huberman. Research conducted at SMPN 17 Balikpapan school year 2019/2020 with the population 7th grade SMPN 17 Balikpapan. Sampling techniques using purposive sampling. Samples amounting to 20 students taken from the 7E, 7F, and 7G classes. Research is collected with science literacy skills test techniques. The results showed that student learning outcomes were reviewed from a science literacy test of 25% of the students with very little criteria, 70% of students with less than good criteria, and 5% of students with good enough criteria. The ability of students is reviewed from each of the indicators of the science literacy competence of 70% in the 1 indicator (remembering and applying appropriate science knowledge), 60% in indicator 8 (suggesting how to explore the question given scientifically), 55% in indicator 11 (converting data from one representation to another), while in other indicators the percentage is below 55%. Students' ability to be reviewed from achieving cognitive sphere in the realm of C3 is good, while in high-level cognitive areas such as C4, C5, and C6 are still lacking. Low ability of students to analyze the chart, the lack of meaningful science learning process, as well as how to learn students who are only as limited as remembering and memorizing.

Keywords: Competency aspect, science literacy, temperature and heat