

ABSTRAK

ANALISIS BUKU AJAR BIOLOGI SMA KELAS X SEMESTER GENAP BERDASARKAN LITERASI SAINS

Nancy Anastasia Meylisa

191434068

Universitas Sanata Dharma

Hasil survey *Program Me For International Student Assessment (PISA)* menunjukkan kemampuan literasi sains yang dimiliki peserta didik di Indonesia masuk ke dalam kategori rendah. Penyebab rendahnya kemampuan literasi sains peserta didik yang rendah salah satunya dipengaruhi oleh penggunaan buku ajar. Buku ajar memiliki peran penting dalam membangun kemampuan literasi sains peserta didik, dan oleh karena itu sebaiknya buku ajar yang beredar memiliki aspek literasi sains yang seimbang. Tujuan penelitian ini untuk mengetahui persentase kemunculan 4 aspek literasi sains pada buku ajar biologi SMA Kelas X semester genap. Jenis penelitian ini adalah *mixed methods* dengan menggunakan metode analisis isi atau dokumen (*content analysis*). Populasi pada buku ajar yang dianalisis adalah materi semester genap dengan sampel yaitu materi jamur dan lingkungan. Teknik pengumpulan data dilakukan dengan cara observasi dengan menggunakan instrumen lembar observasi.

Pada buku A materi jamur diperoleh aspek literasi sains pengetahuan sains 67%, penyelidikan hakikat sains 13%, interaksi sains, teknologi, dan Masyarakat 10%, dan kategori sains sebagai cara berpikir 10%. Materi lingkungan diperoleh hasil aspek literasi sains pengetahuan sains 60%, interaksi sains, teknologi, dan masyarakat 17%, penyelidikan hakikat sains 13%, dan sains sebagai cara berpikir 10%. Buku B dengan materi jamur diperoleh hasil analisis aspek literasi sains yaitu, pengetahuan sains yaitu sebesar 54%, penyelidikan hakikat sains 30%, sains, teknologi, dan Masyarakat 10%, dan sains sebagai cara berpikir 6%. Materi lingkungan diperoleh aspek literasi sains yaitu pengetahuan sains yaitu sebesar 68%, sains sebagai cara berpikir 11%, sains, teknologi, dan masyarakat 11%, dan penyelidikan hakikat sains 10%.

Kata kunci : literasi sains, buku ajar, biologi

ABSTRACT

*Analysis of Science Literacy : Case Study of Biology Text Book for Senior High School
Grade X Semester II*

Nancy Anastasia Meylisa

191434068

Sanata Dharma University

The results of the Program For International Student Assessment (PISA) survey show that the scientific literacy abilities of students in Indonesia are in the low category. One of the causes of students' low scientific literacy skills is influenced by the use of textbooks. Textbooks have an important role in building students' scientific literacy skills, and therefore it is best for textbooks in circulation to have balanced scientific literacy aspects. The aim of this research is to determine the percentage of appearance of 4 aspects of scientific literacy in biology textbooks for Class X high school even semester. This type of research is mixed method using content or document analysis methods (content analysis). The population in the textbooks analyzed is even semester material with samples namely mushroom and environmental material. The data collection technique is carried out by observation using an observation sheet instrument.

The results book A, the fungi material obtained the scientific literacy aspect of science knowledge at 67%, investigation of the nature of science at 13%, the interaction of science, technology and society at 10%, and the category of science as a way of thinking at 10%. Environmental material obtained from the scientific literacy aspect of science knowledge was 60%, the interaction of science, technology and society was 17%, investigation into the nature of science was 13%, and science as a way of thinking was 10%. Book B with fungi material obtained the results of the analysis of aspects of scientific literacy, namely, knowledge of science which was 54%, investigation of the nature of science 30%, science, technology and society 10%, and science as a way of thinking 6%. Environmental material obtained from the scientific literacy aspect, namely scientific knowledge, which was 68%, science as a way of thinking 11%, science, technology and society 11%, and investigation of the nature of science 10%..

Keywords: science literacy, text books, biology