

Maya Eka Wahyuningsih .2023.Pengembangan Modul Inkuiri Berbasis Scientific Reasoning Ability pada Materi Zat Aditif. Skripsi. Program Studi Pendidikan IPA.Fakultas Ilmu Pendidikan. Universitas Trunojoyo Madura. Dosen Pembimbing Wiwin Puspita Hadi S.Si., M.Pd.

ABSTRAK

Tujuan dari penelitian ini adalah mengetahui kelayakan, keterbacaan dan respons siswa terhadap modul inkuiri berbasis *scientific reasoning ability* pada materi zat aditif. Jenis penelitian ini adalah penelitian pengembangan, dengan menggunakan model pengembangan ADDIE. Desain penelitian yang digunakan adalah *purposive sampling*. Penelitian dilaksanakan di SMP AL-Hikam Burneh, di kelas VIII-A dengan sampel berjumlah 36 siswa. Penelitian dilaksanakan pada bulan Januari tahun 2023. Hasil penelitian ini menunjukkan validitas rata-rata kelayakan modul sebesar 90,60% dengan kategori sangat valid dan nilai reliabilitasnya sebesar 94,78% dengan kategori sangat reliabel. Hasil validitas rata-rata kelayakan media memiliki rata-rata sebesar 90,41% dengan kategori sangat valid dan nilai reliabilitas kelayakan media sebesar 92,53% dengan kategori sangat reliabel. Persentase rata-rata semua aspek keterbacaan siswa memiliki nilai sebesar 81,89% dengan kategori sangat baik. Persentase rata-rata semua aspek respons siswa memiliki nilai sebesar 86,30% dengan kategori sangat baik. Modul inkuiri berbasis *scientific reasoning ability* pada materi zat aditif dinyatakan layak digunakan.

Kata kunci : modul, inkuiri, *scientific reasoning ability*, kelayakan, keterbacaan, respons, zat aditif.

Maya Eka Wahyuningsih. 2023. *Development inquiry module based on scientific reasoning ability on material additives*. Thesis. Natural Science Education. Education Faculty, University of Trunojoyo Madura. The Advisor is Wiwin Puspita Hadi S.Si., M.Pd.

ABSTRACT

The purpose of this study are to determine the feasibility, readability, and student responses to the inquiry module based on scientific reasoning ability in additive material. The type of this study is development research, where the study uses the ADDIE development model. The research design used in this study was purposive sampling. The research was conducted at AL-Hikam Burneh Middle School, in the class VIII-A with samples of 36 students. The research was conducted in January 2023. The result of this study indicates that the average validity results for the feasibility of the module are 90.60% which categorized as a very valid category and the reliability value is 94.78% which categorized as a very reliable category. The results of the average validity media have an average of 90.41% categorized as a very valid category and the media feasibility reliability value is 92.53% categorized as a very reliable category. The average percentage of all aspects of student readability has a value of 81.89% categorized in the very good category and the average percentage of all aspects of student response has a value of 86.30% categorized in the very good category. The inquiry module based on scientific reasoning ability on material additives is declared feasible to use.

Keywords: Module, inquiry, scientific reasoning ability, feasibility, readability, response, additives.