

ABSTRACT

RIZKI AMEILIA LUBIS. Analysis of Students Argumentation Thinking Skills with Socioscientific Issues approach based on ESD (Education for Sustainable Development) to Petroleum. Skripsi, Chemistry Education, Faculty of Mathematics and Science, State University of Jakarta. Februari. 2022

This research aims to analyze students argumentation thinking skills on learning based on ESD (Education for Sustainable Development) using socioscientific issues approach. The research was conducted at SMAN 5 Depok in the odd semester of the 2021/2022 school year with MIPA 1 class XI as research subjects. The research method used in this research is qualitative. Research data is obtained from the student worksheets of each meeting, observation sheet, argumentation thinking instrument, reflective journal, and interview. The learning stages carried out in this approach start from the approach and analysis of problems, clarification of problems, continuing social problem issues, discussion and evaluation, and the final stage of metareflection. Qualitative methodology with SOLO taxonomic rubric is considered optimal for this purpose because it can describe in detail the student's argumentation. In this study used 5 points of essay problems with different levels. Based on the results of research from 41 students of grade XI on petroleum materials, on low-level issues all students can answer it well. In question 2 and 3 (multistructural) as many as 62.5% of students can answer it well, while the rest are spread below the level of multistructural thinking skills, namely prestructural and unistructural. In question 4 as many as 27.5% of students can answer questions up to the relational level. In question 5, as many as 27.5% of students can reach the extended abstract level, the majority of students who can answer this level can answer question number 4 appropriately. Based on these data can be enabled the application of esd-based socioscienceic issues approach can foster students' interest in the learning process in the classroom. Although the highest level of thinking skills has not been achieved, the majority of students are already able to give more than 2 true (multistructural) claims. After this research, it is expected that students will be able to become a generation that meets their needs in the economic, social, and environmental fields of sustainable development.

Keyword : argumentation, socioscientific, ESD, SOLO, petroleum