

ABSTRACT

KHOPIFAH MUTMAINAH 2024. *THE EFFECT OF MIND MAPPING BASED ON MINDOMO APPLICATIONS ON STUDENTS CRITICAL THINKING SKILLS IN BIOLOGY LEARNING (Experimental Study in Class X SMA Negeri 7 Tasikmalaya Academic Year 2023/2024)*

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In the 21st century there is very rapid development and change, especially in the field of increasingly sophisticated technology and information, technological advances have an impact on all fields, including education. Life in the 21st century demands various skills that a person must master, one of which is critical thinking. Critical thinking skills in the learning process are still not well optimized. This study aims to determine the effect of mind mapping based on the mindomo application on student critical thinking skills in biology learning environmental change (Experimental Study in Class X of SMA Negeri 7 Tasikmalaya Academic Year 2023/2024). The research method used is a quasi-experimental method using the matching-only posttest-only control group design. The population of this study was all X classes of 450 people (XE-2 – XE-10) SMA Negeri 7 Tasikmalaya for the 2023/2024 academic year. The sample was obtained by purposive sampling, it was found that there were 36 students in XE-2 class as the experimental class and 36 students in XE-10 as the control class. Data collection was carried out using a test technique, namely a posttest of critical thinking skills consisting of 15 questions in the form of descriptions. Data analysis techniques for both groups using independent t test. The results of the analysis show that H_0 is rejected with a significance <0.05 ($0.001 < 0.05$). The results of the study obtained an average posttest score of 29,64 for the experimental class and 22,77 for the control class. Based on data analysis and hypothesis testing, it was concluded that there was an influence of mind mapping based on the mindomo application on student critical thinking skills in biology learning environmental change (Experimental Study in Class X of SMA Negeri 7 Tasikmalaya Academic Year 2023/2024).

Keywords: *mind mapping, mindomo, learning outcomes*