

## ABSTRACT

**Sausanny Nabilah, 2021. A Study on the Implementation of the Kahoot Application in an Online Mini Studio to Improve Students' Cognitive Processes. Advisor one: Dr. H. Uus Toharudin, M.Pd. and Second Advisor: Ida Yuyu Nurul Hizqiyah, S.Pd., M.Si.**

*This study aims to determine the improvement of students' cognitive processes by studying the implementation of the Kahoot application in an online mini studio. The subjects in this study were class X Mathematics and Natural Sciences at SMA Pasundan 1 Bandung, the samples taken were 30 students from Mathematics and Natural Sciences 5 as the experimental class. The research method used is Pre-Experimental using One-Group Pretest-posttest research design. The parameters measured were the pre-test and post-test values to determine the improvement in students' cognitive processes. The results of the research on the experimental class from the N-Gain Test show that the experimental class has a post-test value greater than the pre-test value, the difference in values between pre-test and post-test can be said to be quite far, namely in the pre-test activity (before being given treatment) the lowest score of students was 0.40 and the post-test score (after being given treatment) was the highest student of 0.91 and the average score obtained by students in this activity was 0,68 . it can be seen that the criteria for the value of n-gain are categorized as moderate. Meanwhile, by using the paired t test, H1 is accepted if the lower is negative and the upper is positive, or the value of Sig. (2-tailed) > . From the test results above, because Lower is negative and Upper is negative or Sig. (2-tailed) = 0.008 < = 0.05 then H1 is rejected or HO is accepted. The data above shows that there is a significant difference between the pre-test before using the Kahoot application and the online mini studio and the post-test after using the two teaching media.*

**Keywords:** Kahoot Application, Online Mini Studio, Student Cognitive Process.

