

ABSTRACT

THE BIG 6-WEB ORIENTATION LEARNING APPROACH TO IMPROVE INFORMATION LITERATION AND STUDENT LEARNING RESULTS THROUGH THE UNDERSTANDING OF THE BIOLOGICAL CONCEPT

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This research was carried out based on 21st century skills background and technological developments. But the learning approach and the use of ICT (Information and Communication Technology) as a step to improve students' information literacy skills which is one of the 21st century skills to improve student learning outcomes hasn't been fully implemented. This study aims to determine differences in student learning outcomes before and after using the learning approach of The Big 6 web-oriented on the concept of membrane transport in SMAN 17 Bandung. This study uses Pre-Experimental method. The research data was obtained by pretest and posttest and closed questionnaire. The instrument in this study is 10 multiple-choice objective tests. The results of this research data were then analyzed using IBM SPSS 20.0 for Windows software through normality test with Shapiro-Wilk statistical test, followed by hypothesis testing using one sample t-test. Based on the results of the data analysis hypothesis of the posttest using one sample t-test obtained a value of 0.000 or a significance value <0.05 , which means the hypothesis (H_a) is accepted and the null hypothesis (H_o) is rejected. This shows that there are significant differences in student learning outcomes before and after using the learning approach The Big 6 web-oriented. The students' information literacy skills were analyzed from the results of pretest and questionnaires experienced an increase. Based on these studies it can be concluded that the Big 6 learning approach is web-oriented on the concept of membrane transport can improve information literacy and student learning outcomes.

Keyword: Information Literacy, Technology, The Big 6, Learning Outcomes