

ABSTRACT

Firman Agustiawan. 2018. Use of Smartphones in Web Oriented Learning Processes to Improve Student Learning Outcomes and Information Literacy on the Concept of Biodiversity. Advisor I Dr. Cartonno, M.Pd, M.T and Supervisor II Dr. H. Uus Toharudin, M.Pd.

This study aims to determine the use of smartphones in a web-oriented learning process in improving student learning outcomes and information literacy on the concept of biodiversity. The research method used was Pre-Experimental Design using the One-Group Pretest-Posttest Design research design. The subjects of this study were determined by purposive sampling technique, namely students of class X IPA-B in MAN 1 Bandung in the odd semester of 2018-2019 school year. The results of the study on cognitive aspects obtained an average pretest score of 46.71 and an average posttest score of 69.57 and the results of the N-Gain test obtained a score of 0.42 with the medium category. Then, the results of the research on the affective aspects get an average score of 84 with a very good category and psychomotor aspects get an average score of 82 with a very good category. Then the results of Information Literacy ability gained an average score of 81.78 with good categories. And questionnaire responses of students to learning get an average score of 80.63% with a very good category. From the results of the research data it can be concluded that the use of smartphones in the process of web-oriented learning can improve student learning outcomes and information literacy on the concept of biodiversity.

Keywords: *Student Learning Outcomes, Biodiversity, Information Literacy, Smartphones.*