

ABSTRACT

Irda Zakia Dienul Hanifah. 2023. The Use of Interactive Multimedia Developed with Articulate Storylines as a TPACK Component in Improving Students' Analysis Ability in the Excretion System. Supervised by Dr. H. Uus Toharudin, M.Pd., and Dr. drh. Nia Nurdiani, M.Si.

The difficulty of students developing analytical skills in mastering the subject matter of the excretory system in the learning context. This study aims to determine whether there is an increase in students' analytical skills in learning with the use of interactive multimedia developed with articulate storyline 3.0 as a TPACK component in excretion system material. This study used an experimental method with a pre-experimental design in the form of a one-group pretest-posttest design. The population in this study were students of class XI at SMA Kartika XIX-1 Bandung in class XI MIPA 4. The results showed that the N-Gain category obtained was ($0.70 \leq N\text{-Gain} \leq 1.00$) with a low category of 1 student (2.9%), a fixed category of 1 student (2.9%), and a high category of 33 students (94.2%). It can be concluded that learning to use interactive multimedia that was developed with an articulate storyline as a TPACK component can improve students' analytical abilities on excretion system material. Based on the results of this study, it is recommended for future researchers to master interactive multimedia to make it easier to apply in learning

Keywords: Analytical Ability, Interactive Multimedia, TPACK