

ABSTRACT

Ariska Yolandari Marwati, 2019, Implementation of 3 Dimensional Animation Media to Improve Students' Logical Thinking Ability in the Concept of Cell Structure and Function. Under the guidance of Prof. Dr.H.Toto Sutarto Gani Utari, M.Pd and Drs. H. Uus Toharudin, M.Pd.

The ability to think logically is a thought process that uses reasoning consistently to produce conclusions. This study aims to determine whether 3-dimensional animation media can improve students' logical thinking abilities on the concept of cell structure and function. The research method used is *One-Group Pretest-Posttest*. Design that is the researcher wants to measure the increase in students' logical thinking skills, which is measured through tests that are with essay questions. The sample in this study were students of class XI-MIPA 1 in Banjaran Pasundan High School who were given questions in the form of objective tests of 10 essay questions as a *pretest* and *posttest* to measure and find out how far the students can answer the questions before and after being treated using 3-dimensional animation media on the concept of structure and cell function. The results of the study from the pretest and posttest data the average value of 33.27 pretest and 74.82 posttest. This researcher conducted a hypothesis test where there were significant differences in the results of experimental learning, showing a significant value of $0,000 < 0.05$.

Keywords: Logical thinking ability, 3- dimensional animation media, concept of cell structure and function.