

**USE OF 3D ANIMATION MEDIA TO IMPROVE STUDENT ANALYTICAL THINKING
ABILITY IN MATERIAL STRUCTURE AND FUNCTION OF CELLS**

By

GINA FITHRIA FUZIATI

155040010

ABSTRACT

The purpose of this research is to determine the use of 3D animation media in improving students' analytical thinking skills on cell concepts. 3D animation media which used here is YouTube videos. The research method use Quasi Experiment design using a Non Equivalent Control Group research design. The subject of this research was determined by purposive sampling technique, which is students of class XI MIA 1 and XI MIA 2 at SMAN 1 Parongpong in odd semester of the academic year 2019/2020. The results of research on cognitive aspects obtained an average score of 57.50 pretest and posttest 87.09 in the experimental class and pretest 55.03 and posttest 77.97 in the comparison class. As well as from the Gain test it got a score of 29,59 in the experimental class, and a score of 22,94 in the comparison class. the average value is higher in the experimental class than in the control class. The results of the research on the affective aspect get a score of 3.53 in the excellent category and the assessment of the psychomotor aspect of 3.57 which is very good. From the results of these research it can be concluded that the use of 3D animation learning media can improve students' analytical thinking skills on cell concepts.

Keywords: 3D Animation Media, Analytical Thinking Ability, Cell Structure and Function.