ABSTRACT

Fitria Nur Azizah, 2018. **Application of Problem Based Learning Learning Models to Improve Students' Critical Thinking Ability on Virus Concepts**. Advisor I: Prof. Dr. H. Toto Sutarto Gani Utari, M.Pd., Advisor II: Rifki Survani, M.Pd.

This study aims to improve students' critical thinking skills using the application of problem based learning (PBL) learning models on the concept of viruses. The methods and designs used in this study are Pre-Experimental Design and One Group Pretest-Posttest Design. The population taken was all students of class X SMA Pasundan 1 Bandung with a sample of one class, namely class X MIPA-3. Sampling is determined through a sample random sampling method, that is, the entire population is considered equally in the learning outcomes and the sample is taken randomly. This study uses test and non-test, a test in the form of a description problem to capture students' critical thinking skills through pretest and posttest, while non-test is done with observation sheets of PBL syntax of teacher and student activities. The results of this study showed significant results on students' critical thinking after being given treatment and after being treated.

Keywords: Critical Thinking, Problem Based Learning, Virus Concepts