

## ABSTRAK

Meliansyah. 2016. **The use of *problem solving* methods to improve student learning outcomes on the concept of bacteria.** Supervisor 1 Setia Adi Dadi H., M.Sc, Ph.D. and Supervisor 2 Dr. Hj. Mia Nurkanti, Kes.

This study aims to apply the methods of *problem solving* in order to improve student learning outcomes in the concept of bacteria in SMA Pasundan 2 Cimahi. The population of this research is class X-I IPA SMA Pasundan 2 Cimahi, the class X-I IPA by the number of students as many as 30 people. The method used in this research is the Pre Experimental design One-group pretest-posttest design without control class. Research instrument used is a test that measures cognitive ability in the form of 30 multiple choice questions that are tailored to the achievement of the indicators of learning that has been tested previously. After doing research pretest and posttest researchers went to the t test and obtained by t test results are significant because  $t_{count} > t_{table}$  amounted to  $16.21 > 2.68$ . The results of data processing of this study indicate that the hypothesis reject  $H_0$  so that it can be concluded there is an increase in student learning outcomes with an average pretest score of 41.66 and an average posttest amounted to 81.13, better *problem solving* method in improving student learning outcomes and stimulate students' enthusiasm for learning. It is proved with the average value between pretest and posttest were increased by the students after learning by using the methods of *problem solving* in bacterial material.

Keywords : *Problem Solving*, Improving Learning Outcomes.