

ABSTRACT

Firda Ashianti, 2019. Application Model of Creative Problem Solving (CPS) to improve Higher Order Thinking Skills (HOTS) Learners on the concept of Biodiversity. Thesis, Biology Education, Faculty of teacher training and educational sciences, University of Pasundan in Bandung.

This research aims to know the effectiveness of models of Creative Problem Solving (CPS) in doubles, Higher Order Thinking Skills (HOTS) learners on a staple material for biological diversity. The subject of this research is the learners on a class X of SCIENCES at Pasundan Bandung 2 SMAS, with samples as many as 36 people (one class) that is determined by purposive sampling technique. The research method used was pre-experimental research designs with one group pretes-posttest design. Parameters measured is the ability of Higher Order Thinking (HOTS) learners. The measurement is done through tests with the instrument in the form of 30 question multiple choice and essay question with 5 indicators of Higher Order Thinking Bloom and William. The results showed an average score improvement of HOTS (Gain) of the category increased by 24.44 dominated learners with the criteria being (88.89%) ($N\text{-Gain} = 0.38 - 0.70$), whereas increased with high category ($N\text{-Gain} = 0.71 - 0.83$) 11.11% experienced learners. Criteria HOTS learners after learning was 41.67% categorized quite creative, 47.22% creative categories, and 11.11% categorized very creative. Based on this study it can be concluded that the application of the learning model of Creative Problem Solving (CPS) in the learning of subject matter Biological material Keanekaragam significantly ($\alpha = 0.05$) can increase the mastery of the material and thinking skills high level (Higher Order Thinking Skills (HOTS) learners.

Key words: Higher Order Thinking skills (HOTS), a model of Creative Problem solving (CPS)