

**THE EFFECT OF CREATIVE PROBLEM SOLVING (CPS) LEARNING  
MODEL BASED ON HIGHER ORDER THINKING SKILLS (HOTS)  
TO STUDENT'S MOTIVATION AND LEARNING OUTCOMES  
ON SALT HYDROLYSIS**

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**ABSTRACT**

This study aimed to know the effect of creative problem solving learning model based on higher order thinking skills to student's motivation and learning outcomes on salt hydrolysis. This study was done in SMA N 1 Perbaungan in academic year 2018/2019. The type of the research was quasi experiment, with pretest-posttest control group design. The population was all students XI MIA SMA N 1 Perbaungan field consisting of 4 classes. Sampling is taken by random sampling technique as many as 2 classes, each 36 students, as control class and experiment class. The instrument used objective tests and questionnaire of motivation. One tailed t-test was used for data analysis which obtained that pretest and posttest data calculation for both classes were distributed normally and homogeny. During treatment process, experiment class was taught by using creative problem solving learning model based on higher order thinking skills, while control class was taught by direct instruction model. The result shows the effect of creative problem solving learning model based on higher order thinking skills to student's motivation and learning outcomes on salt hydrolysis is higher than the students who follow the direct instruction model at school. The correlation tests show a positive correlation between student's motivation and learning outcomes obtained  $0.689 > 0.329$  with coefficient of determination of 47% in class control, in class experiment obtained  $0.819 > 0.329$  with coefficient of determination of 67%. The correlation result was showed high correlation that there is the significant correlation between student's motivation and learning outcomes is taught by the creative problem solving learning model based on higher order thinking skills on salt hydrolysis.

**Keywords:** Effect, Creative Problem Solving, Higher Order Thingking Skills

