

**THE IMPLEMENTATION OF COLLABORATION PBL WITH TWO  
STAY TWO STRAY MODEL TO INCREASE STUDENT'S  
ACHIEVEMENT AND CURIOSITY USING HANDOUT  
MEDIA ON SOLUBILITY AND SOLUBILITY  
PRODUCT TOPIC**

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**ABSTRACT**

The implementation of collaboration Problem Based Learning (PBL) with Two Stay Two Stray (TSTS) model to increase student's achievement and curiosity using handout media on solubility and solubility product topic is explained. The objectives of this research are (1) to determine whether the student's achievement that teaches by PBL with TSTS model with using handout media is significant higher than teach just using PBL using handout media (2) to know the correlation student's curiosity and student's achievement that teach by PBL with TSTS model with using handout media on the topic of solubility and solubility product. Population of this research were all class in grade XI science on second semester from SMAN 1 Air Putih, SMAN 1 Berastagi, SMAN 1 Sidikalang. Three class were used as class experimental I and three other class were used as class experimental II. Before conducting the research, the pretest was done, then the research was conducting in both of class and give the questionnaire of student's curiosity character was done at last meeting of research. In class experimental I, the students were taught by using collaboration of PBL with TSTS model using handout media and in class experimental II the students were taught by using PBL model using handout media. After conducting the teaching-learning process, the posttest was done. The results of research are (1) The student's achievement that taught by collaboration PBL with TSTS model using handout media is significant higher than student's achievement that taught by PBL using handout media, like at SMAN 1 Air Putih 74%, at SMAN 1 Berastagi 76%, then at SMAN 1 Sidikalang 78% (2) There is positive and medium correlation between student's curiosities with achievement in each class like at SMAN 1 Air Putih in experiment I 31.36% while in exp class II 2.7%. At SMAN 1 Berastagi in exp class I has 19.53% and exp class II 4.7% and at SMAN 1 Sidikalang in class exp I 28.09% and class exp II 0.68%. Furthermore, using collaboration of PBL with TSTS model using handout media on teaching solubility and solubility product topic in class is more effectively than using PBL model using handout media.

**Keywords:** Problem Based Learning, Two Stay-Two Stray, Handout media, Student's Achievement, Curiosity character