**ABSTRACT**

**Application of Cooperative Learning Model Numbered Heads Together (NHT)To Increase Motivation and Learning Outcomes of Students In Science Lesson**

The classroom action research was studied by Fitria Mei Yulistiawati at 4th grade of SDN Margahayu Raya 3 Kecamatan Buah Batu kota Bandung, The background lack of motivationand low of learning outcomes by students in IPA lessons due the learning process’s less interesting. so it makes low learn motivation and value under KKM.There’re some formulations of theproblem to identify whether the implementation of cooperative learning model NHT can improve motivation and learning outcomes of students in IPA lessons? The researchers suggested sixresearches questions, which’re: (1) How is the learners’ achievement before following the learning process? (2) How is the learners’ motivation during the learining process used NHT cooporative learning model? (3) How is the learners’ activity during the learning process? (4) How is the learning documents prepared by teacher? (5) How is the learners’ achievement after participating in corporative learning model by NHT? (6) How do the teacher activitiesfor learning implemention with model NHT? The purpose of thisresearch are : (1) To identify how to make a plan by NHT method; (2) To analyze how the activity process of the learners and the teacher toward NHT method; (3) To find out the motivation and learning outcomes after following NHT model. This study used PTK as the research method. The research object’s the 4th grade of SDN Margahayu Raya 3 Kecamatan Buah Batu Bandung. The data collections techniques in this study’s the motivation questionnair, sheet documents of teacher observation, observation sheet activities of teachers and learners.The result of NHT model showed that (1) The value of the pre-test in first cycle which is 79% of learners have not reached KKM and 21% of students have reached KKM and increased in second cycle, that is 57% have reached KKM and 43% of students have not reached KKM; (2) Motivation in first cycle reached 59 % the learners agree, 21% neutral, and 21% disagree. The second cycle showed that 83% agree, 12% neutral, and 5 % disagree; (3) Based on the learners activity, in first cycle reached 70% and second cycle’s 85%; (4) According to document infirst cycle, achievement has 75% and in second cycle has 93%; (5) The result of learners learning activity in first cycle has 40 % and in second cycle has 86%.

In conclusion: learning process by NHT is success.

Keywords: NHT Learning Model, motivation, learning outcomes