**ABSTRACT**

Sari, Evi Kartika. 3214093058. 2013. The Effect of *Quantum Teaching* by using *Mind Mapping* Technique Toward Mathematics Student Achievement and Students Motivation of the Grade Students at MTsN Karangrejo Tulungagung. Thesis, Mathematics Education Program. Advisor: Sutopo, M.Pd.

Keywords: *Quantum teaching* by using *mind mapping* technique, Motivation, Achievement.

The research of this thesis discuss about the effect of auantum teaching by using mind mapping technique toward mathematics student achievement and motivation. This study is motivated by students motivation to learn mathematics is still re;atively low so that student achievement is not optimal. This study was intendedto answer the research problem, they were: 1) is there any effect of *quantum teaching* by using *mind mapping* technique towards students motivation of the second grade students at MTsN karangrejo Tulungagung?; 2) is there any effect of *quantum teaching* by using *mind mapping* technique toward mathematics students achievement of the second grade students at MTsN karangrejo Tulungagung?.

The purpose of this research were to:1) Find out the effect of *quantum teaching* by using *mind mapping* technique toward students motivation of the second grade students at MTsN karangrejo Tulungagung. 2) Find out the effect of *quantum teaching* by using *mind mapping* technique toward mathematics students achievement of the second grade students at MTsN karangrejo Tulungagung.

This research was quantitative approach, the research design in this study was quasi experimental study (*Quasi –Experimental*) with non-equivalent control group. The population of this research was all second grade students MTsN Karangrejo 2012/2013 which consist of six classes. The sample was taken by using *purposive sampling* technique, with a control group. Data collecting method and instrument were: 1) Dokumentation; 2) Observation; 3) Interview; 4) test; 5) Questionnaire. The research instrument was a questionnaire to measure students motivation and test that was *post test* to measure students achievement. Analysis technique used were t-test by using spss 16.0 for windows and calculate by using formula of t-test.

The result of research showed that there was significant difference between means of experimental class and means of control class. Result of data analysis known that motivation and students achievement that given treatment of *quantum teaching* by using *mind mapping* technique had means better than there was treatment. Means of the students motivation in experimental class was 115,58, while in control class was 106,83. Result of statistical test applied in this research were obtained t count was 3,514 with a significant level 0,001. Where are, means of students achievement in experimental class was 82,50 and means of students achievement in control group was 73,60. Result of statistical test applied in this research were obtained t count was 2,736 with a significant level 0,008. Based on the data analysis of the research, it can be concluded that 1) There was effect of *quantum teaching* by using *mind mapping* technique toward students motivation of the second grade students at MTsN Karangrejo Tulungagung; 2) There was effect of *quantum teaching* by using *mind mapping* technique toward mathematics students achievement of the second grade students at MTsN Karangrejo Tulungagung.

Based on the result of the research and conclusions, then put forward suggestions to improve motivation and mathematics achievement, teachers can use *quantum teaching* by using *mind mapping* technique. For further research is suggested to develop *quantum teaching* by using *mind mapping* technique by trying out a combination of models and more vaied instructional media or in other forms of research such as action research, so it looks great effect on motivation and student achievement get benefit of *quantum teaching* by using *mind mapping*  technique.