

ABSTRACT

Windy Meiriska, Application of Brain Learning Method Based Learning (BBL) to Improve Ability Mathematical Connections Vocational students .

Mathematics learning starts from the things that are contextual , so it can provide the opportunity for students to redefine and mengomstruksi mathematical concepts based on realistic problems set by the teacher. But the facts show that the field through the connections and critical thinking mathematical students have not been as expected . One model that is expected to improve the results of students' mathematical connection is Brain Based Learning (BBL). The purpose of this research is 1) To know the mathematical connection capacity building of students who use the Brain Based Learning approach (BBL) was higher than that using the conventional approach. 2) to determine the students' attitudes toward learning mathematics learning model Brain Based Learning. 3) to determine the correlation between the mathematical connection capabilities and attitudes. This study used an experimental method . The study population was all students of class X SMK MVP International ARS Bandung academic year 2015/2016. And samples taken as much as two randomly chosen class by class. The research instrument used is test type description of matters mathematical connection capability and attitude scale questionnaire. Data analysis was performed using normality test , homogeneity test , and t test. Based on the analysis of research data , we concluded: 1) the ability to connect students acquire mathematical learning model Brain Based Learning is better than students who received learning Problem Based Learning ; 2) students ' positive attitudes towards learning mathematics by using model Brain Based Learning 3) there is a correlation between the ability of mathematical connections with students' attitudes toward learning mathematics using model Brain Based Learning.

Key words : Brain Based Learning , Problem Based Learning , Mathematical Connections .