

ABSTRACT

Ali, Barnu. (2017). **The Application of CORE Models (Connecting, Organizing, Reflecting, Extending) to Improve Mathematical Communication Skills and Productive Disposition High School Students.**

One form of learning difficulties is that students are difficult to communicate between mathematical concepts with one another well and correctly, it shows that the level of student's mathematical communication is still low, Productive Disposition students should be planted and grown in students, because they see the role Productive Disposition in mathematics learning is very important. In accordance with the problems that have been formulated, the purpose of this study is (1) to determine whether the improvement of mathematical communication skills of students who obtain learning using CORE model better than students who obtain conventional learning; (2) to find out whether the increase in Productive Disposition of students acquiring learning using the CORE model is better than that of students receiving conventional learning; (3) to find out whether there is a correlation between mathematical connection ability and Productive Disposition of students who gain learning using CORE model and who acquire conventional learning. The method used in this research is the experimental method with the design of pretest postes control group. The population in this research is the students of SMA Angkasa Lanud Husein Sastranegara and the samples are two classes of XI IPS in Hasyinegara Highschool Airspace Husein Sastranegara. Instrument used in this research is test of mathematical communication ability and scale Productive Disposition. Based on data analysis and research findings obtained can be concluded that (1) Improvement of mathematical connection ability of students who gain learning using CORE learning model is better than students who get conventional learning; (2) Increased Productive Disposition of students who gain learning using a CORE learning model is better than students who have received conventional learning; (3) There is no correlation between mathematical communication ability and Productive Disposition students who gain learning using CORE learning model and students who gain conventional learning.

Keywords : CORE (Connecting, Organizing, Reflecting, Extending), Mathematical communication skills, Productive Disposition