Warattha Serewiwattana 2012: Development of Application in iOS Operation System for Tablet Instruction on Square in Mathematics for the Fifth Grade Students. Master of Education (Educational Technology), Major Field: Educational Technology, Department of Educational Technology. Thesis Advisor: Mr. Paitoon Srifa, Ed.D. 168 pages.

The objectives of this research were 1) to develop Application in iOS Operation System for Tablet Instruction on Square in Mathematics for the fifth grade students at the quality was at good level and efficiency 80/80 criteria, 2) to compare the pretest scores with posttest score after learning from Application in iOS Operation System for Tablet Instruction on Square in Mathematics, 3) to study the students satisfaction on the developed Application in iOS Operation System for Tablet Instruction on Square in Mathematics.

The sample group in this research were 30 the fifth grade students at Sangsom School in the second semester of the 2011 academic year. The student selected by cluster sampling technique. The research tools utilized in this study were Application in iOS Operation System for Tablet Instruction on Square in Mathematics, quality evaluation form, pretest and posttest, and the questionnaire. Data were analyzed by percentage, mean, standard deviation and t - test.

The research results were 1) the efficiency of Application in iOS Operation System for Tablet Instruction on Square in Mathematics for the Fifth Grade Students was at 80/80 according to the criteria, 2) the students post-test scores after studying through Application in iOS Operation System for Tablet Instruction on Square in Mathematics were statistically significant higher than the students pre-test scores at .05 level, and 3) the students satisfaction on developed Application in iOS Operation System for Tablet Instruction on Square in Mathematics was at the most level.

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