

Supattra Sirirungrueang 2011: Effects of Learning Activities by Using SSCS Model on Ability in Learning Mathematics on “Application of Linear Equations with One Variable” of Mathayomsuksa Two Students at Benchamatheputhit Changwat Phetchaburi School. Master of Education (Teaching Mathematics), Major Field: Teaching Mathematics, Department of Education. Thesis Advisor: Assistant Professor Chanon Chuntra, Ph.D. 161 pages.

The purposes of this research were 1) to study mathematics learning achievement on “Application of Linear Equations with One Variable” by using SSCS model learning activities, 2) to study ability in mathematical word problems solving on “Application of Linear Equations with One Variable” by using SSCS model learning activities, and 3) to study students’ opinions related to learning activities by using SSCS model on “Application of Linear Equations with One Variable” of mathayomsuksa two students at Benchamatheputhit Changwat Phetchaburi School.

The sample group was 44 mathayomsuksa two students of one classroom at Benchamatheputhit Changwat Phetchaburi School in the second semester of the academic year 2010 that was selected by cluster random sampling from 11 classrooms. The instruments in data collection consisted of 10 lesson plans on “Application of Linear Equations with One Variable” by using SSCS model, mathematics learning achievement tests on “Application of Linear Equations with One Variable”, ability evaluation forms in solving mathematical word problem on “Application of Linear Equations with One Variable”, and students’ opinion questionnaire toward learning activities by using SSCS model on “Application of Linear Equations with One Variable”. Percentage, mean, standard deviation, and t-test were used for analyzing data.

The research results showed that the mathematics learning achievement on “Application of Linear Equations with One Variable” by using SSCS model learning activities of students after learning was higher than before learning and was higher than 60% at the .05 level of significance. The students had ability in the mathematical word problems solving on “Application of Linear Equations with One Variable” at the “good” level. Almost all students agreed that the learning activities by using SSCS model were appropriate.

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Student’s signature

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Thesis Advisor’s signature