

Thesis Title	Use of a Concept Attainment Model in Teaching Mathematics at the Secondary School Level		
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### Abstract

The purpose of this research was to study the effect of using Joyce and Weil's Concept Attainment Model on mathematics learning achievement of the secondary school students.

The subjects were Mathayom Suksa 3 students from Chiang Mai University Demonstration School, who enrolled during the first semester of the academic year 1996. Two intact classes were chosen and randomly assigned as the experimental group and the control group. The control group consisted of 40 students while the experimental group consisted of 38 students. The research instruments were as follows : (1) The Concept Attainment Model lesson plans ; (2) The traditional instructional plans and (3) The mathematics learning achievement test on the topic of circle.

As for data collection, the researcher taught both the experimental group and the control group. After the instructions, all subjects took the same mathematics achievement test. The data were statistically analysed. The ANCOVA was used to compare the mathematics achievement scores and the scores of Math 204 were employed as the covariate.

The finding of the research was that the mathematics learning achievement of the students taught by the Concept Attainment Model lesson plans was not significantly different from those of the students taught by the traditional instructional plans at the level of .05