

**THESIS TITLE : A STUDY OF SCIENCE TEACHING MODEL THROUGH THE
LEARNING CYCLE METHOD ON THE TOPIC OF "HOUSEHOLD
ELECTRICAL APPLIANCES" FOR MATHAYOM SUKSA III
STUDENTS**

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ABSTRACT

The purposes of the present study were 1) to compare learning achievement of Mathayom Suksa III (Grade 9) students in the science topic of "Household Electrical Appliances" between the experimental group which was taught through the learning cycle method and the control group which was taught through the conventional method, 2) to compare science process skills of the experimental and control groups, and 3) to measure the experimental students' learning retention.

The sample consisted of two classes of 73 Mathayom Suksa III students from Ban Sam Liam Municipal School in Muang District, Khon Kaen Province during the first semester of the 1999 academic year. One class of 37 students were randomly assigned experimental group and the other class of 36 students were assigned control group. The Pretest-Posttest Control-Group Design was employed in the study. The resulting scores were compared for the students' learning achievement, science process skills and learning retention. Analysis of the data collected was done by means of a t-test.

The findings showed that :

- 1 . Learning achievement of the experimental group was significantly different to the control group's at the .05 level of significance.
2. Science process skills of the experimental group was significantly different to the control group's at the .05 level of significance.
3. The experimental students' learning retention significantly after the experiment at the .05 level of significance.