Thesis Title	Development of Science Programmed Text on Food Nutrients and Comparison of Matayomsuksa 2 Students' Achievement between those who Learned by Programmed Text and Ordinary Teaching
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ABSTRACT

The purposes of this research are for

1. Development of Science Programmed Text for the course SC203 on "Nutrients" for Matayom Suksa 2

2. Comparing the students' achievement in SC203 between those who learned by programmed text and by ordinary teaching.

This research was emphasized on both construction of programmed text and study of students' achievement. The design of study was qualified experimental research Non-randomized Pre-test, Post-test controlled Group Design. The samples were students in Mattayom suksa 2 in the first term of 2541 Educational year Ladplakhao Pittayakhom School, Ladprao Bangkok. The sample of 2 from 13 classes were drawn by comparing their class achievement to be closed in means, standard deviations and co-efficient variation and classified by classes of them at random to experimental and controlled groups. The experimental group learned by using programmed text while the controlled group learned by ordinary teaching.

- Research instruments are composed of Programmed Text (1 Unit) and achievement test.

- Teaching for quality evaluation of the standard programmed text at standard of 90/90. Pre-test and Post-test mean and one sample t-test were used to evaluate the programmed text constructed in this study.

The comparison between the students' achievement in experimental and controlled groups was done by t-test of independent samples with Gain score between experimental group and controlled group

- The results are

1. The efficiency of Programmed Text about "Nutrients" is 93.32/92.32

2. The difference of mean scores is significant at the level of .01

3. The students' achievement in SC203 for those who learned by programmed text was higher than those who learned by ordinary teaching.