

Thesis Title	The Construction of a Side-Tape Programmed Lesson on "Water" for Pratom 4 Students.
Name	Jesada Pianboon
Degree	Master of Education (Environmental Education)
Thesis Supervisory Committee	Sirichai Chinatangul, Ph.D Vinai Veeravatananond, Ph.D Pruchya Jaisa-ad, M.A.
Date	24 May B.E. 2532 (1989)

ABSTRACT

The main objectives for this research were to develop and experiment the slide-tape programmed lesson on "Water" for Pratom 4 students, which were evaluated by the following criteria:

1. The quality of a slide-tape programmed lesson on students in regarding to picture management, content, language, and sound.

2. The efficiencies of a slide-tape programmed lesson of "Water" for Pratom 4 students was evaluated by the student achievement test with the following criteria:

- 2.1 the criterion of 90/90 standard

- 2.2 the comparison of students' achievement between pretest and posttest

The research designs for this study were organized in the following steps:

1. Studied a slide-tape programmed lesson reports and researches for construction based on the study of the slide-tape programmed lessons.
2. Constructed a slide-tape programmed lesson on "Water" for Pratom 4 students.
3. Constructed the student achievement test in order to find out its quality.
4. Constructed a quality evaluation questionnaire for the for Pratom 4 students.
5. Tried-out a slide-tape programmed lesson with two groups of students in Pratom 4 at Pibulprachasan school, Bangkok and also in Muangmaichalorasrangsalid School, Lopburi province. After this tried-out eight expertises had evaluated its quality.
6. The research experimentation was conducted by one group pretest-posttest design. The thirty-six students in Pratom 4 at Lopburi Kindergarten School, Lopburi province, were purposively selected. The treatment of data were analized in terms of the average performance of the students in tabulation of data and compared the students' achievement between pretest and posttest by the t-test statistic.

The results of this research revealed that:

1. The result of the evaluation had been rated "good" by the expertises and it could be used as the lesson on subject of "Constructing Life's experience" based on "Water".
2. The analyze result of efficient criterion of 90/90 (± 2.50) standard:

2.1 The efficiency of a slide-tape programmed lesson on "Water" for Pratom 4 students is 93.75/89.00 which met the set criterion of 90/90 standard.

2.2 The comparison of students' achievement had revealed that the posttest was significantly different from the pretest at the .05 level. This finding could be concluded that the students who had studied the slide-tape program and lesson on "Water" for Pratom 4 students had improved their knowledge significantly.