

<b>Thesis Title</b>	A Study on the Development of Prathomsuksa 5 Students' Learning Ability of a Science Subject through the Use of Problem-Based Instructional Method
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### Abstract

This research is an experimental study. The aims were: (1) to investigate the development of Prathomsuksa 5 students' learning ability of a science subject resulted from the use of problem-based learning, (2) to investigate the students' learning achievement of a science subject, (3) to determine their satisfaction of their learning of a science subject through the use of a problem-based learning method.

In total, 40 Prathomsuksa 5 students were purposively selected from a single class. They were the students of Chao Phraya Prasert Suntrasai School, Wangthonglang District, Bangkok. The data collection was done during the 2 semester of the academic year 2516. The research tools were (1) 7 instructional plans on Plant and Animal Diversity, (2) the test on the students' ability to solve problems in a science subject, (3) the behavioral observation form, (4) the achievement test, and (5) the questionnaire on the students' satisfaction of their learning of the subject through the use of the problem-based instruction.

The statistics used for the data analysis were percentage, mean, and standard deviation.

The results were as follows:

1) Five groups of the students (83.33%) scored on the test of the ability to solve problems in a science subject above the 80% minimum criteria. One group of students (16.66%) scored lower than the set criteria.

2) In terms of the achievement of their learning of the science subject, 23 students (57.50) scored above the 80% standard. 17 of them (42.50%) scored lower than the set standard.

**Keywords:** Development of learning ability, problem-based instruction, Sciences subjects