

Sopaphan Vechakun 2010: A Study of Mathematics Learning Achievement on “Variation” of Mathayomsuksa Two Students at Demonstration School of Suansunandha Rajabhat University by Using Problem Based Learning. Master of Science (Mathematics Education), Major Field: Mathematics Education, Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Siriporn Thipkong, Ed.D. 118 pages.

The purpose of this research was to study the mathematics learning achievement on “variation” of mathayomsuksa two students at Demonstration School of Suansunandha Rajabhat University by using problem-based learning.

The sample group was mathayomsuksa two students at Demonstration School of Suansunandha Rajabhat University in the second semester of the academic year 2009. One class was selected by purposive selecting consisted of 55 students from two classes. The research instruments were 12 lesson plans on “variation” by using problem-based learning, 20 items with four multiple choices of mathematics achievement test with the discrimination 0.26 - 0.78 , the reliability of 0.82 , and an evaluation forms of learning activities by using problem-based learning.

The research results revealed that mathematics learning achievement of students after teaching by using problem-based learning , the scores of the post-test was higher than pre-test at the .05 level of significance. In addition, 42 students think be 76 percents of the students were able to pass the criteria (60%) at the .05 level of significance and assessment of learning activities by using problem-based learning at middle level.

---

Student’s signature

---

Thesis Advisor’s signature