

Wannaree Pansiri 2015: The Development of the Assessment for Learning Model of Mathematics for Rajamangala University of Technology Rattanakosin. Doctor of Education (Educational Research and Evaluation), Major Field: Educational Research and Evaluation, Department of Education. Thesis Advisor: Mrs. Warunee Lapanachokdee, Ph.D. 429 pages.

The objectives of this research were 1) to develop the assessment for learning model of Mathematics for Rajamangala University of Technology Rattanakosin and 2) to study the effectiveness of assessment for learning model of Mathematics for Rajamangala University of Technology Rattanakosin. The target group consisted of 72 students from 3 classes and 3 General Mathematics teachers. Data were collected by observation forms, worksheets, achievement test, knowledge and skilltest on assessment for learning, questionnaire of an assessment for learning and questionnaire of assessment for learning model of Mathematics. Data were analyzed by conducting frequency, percentage, mean, standard deviation, growth score and content analysis.

The research result showed that

1. The assessment for learning model of Mathematics for Rajamangala University of Technology Rattanakosin consisted of 3 components. The first was Pre-Assessment which consisted of 4 activities including 1) Preparation, 2) Instructor development, 3) Design and creation the assessment plan and instrument for assessment and 4) Creation the learning experience plan. The second was component for assessment process which consisted of 4 steps which were 1) Identifying the learning objectives and criteria, 2) Operation of learning experience and assessment follow the plan, 3) Learning reflection and giving feedback and 4) Learner development based on information and improving instruction. The third component was giving feedback component.

2. Based on the effectiveness of assessment for learning model of Mathematics, it was found that most students' scores were in good level in term of concentration, honest, responsibilities, group work, task presentation, worksheets, and doing exercises. Growth score of most students was quite good and majority of their opinions showed the most satisfied with the assessment for learning. It was found that instructor's opinions on the assessment for learning model of Mathematics was in a good level in term of applying and usefulness of the assessment model and they absolutely agreed with this model.

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Student's signature

Thesis Advisor's signature