Krissana On - Ouen 2014: The Approach of Assessment for Learning in Mathematics for Mathayom 4. Master of Education (Educational Research and Evaluation), Major Field: Educational Research and Evaluation, Department of Education. Thesis Advisor: Mr. Thattharit Thiamtham, Ph.D. 244 pages.

This research aims: 1) To study the suitability of the approach of assessment for learning in mathematics for Matayom 4 and 2) To study the learning of students of Matayom 4 from the assessment for learning. The group that was sampled in this research is the students that are in the science - math class of Matayom 4 Semester 1 2556 academic year in Sriracha School, The Office of Education School District 18 Chonburi province, of 50 students in the class of which have come from a random group (Cluster Random Sampling) tool used in this research is a basic math lesson plans for the course of the first semester of academic year 2556, which the researchers developed 6 lesson plans. Assessment on learning the lessons, achievement tests, a record of the learning activities and analysis using quantitative finding the mode, range, frequency and percentage. Qualitative data were analyzed using content analysis.

The research concluded that 1) Assessment for learning mathematics were at an appropriate to a very reasonable level 2) students who have been evaluated with the assessment for learning mathematics had achievements and the learning standards through mathematics assessment. All student through evaluation criteria equal to the average 71.17 standard deviation equal to 8.6. The assessment is in range 1.5 - 4. The reading skills, critical thinking and writing are evaluated in a great number of 36 people, representing 72 percent of all student levels in 12 patients, representing 24 percent of all students passing level number 2 percent all four of the students And the desired characteristics. All students passed the assessment results are excellent. 3) All students are satisfied with the assessment for learning mathematics.

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