

Patcharee Bunsom 2012: The Development of Integrated Learning Unit in Mathematics Substance on “The Relationship between Two-Dimensional and Three-Dimensional Geometry” of Mathayomsuksa I. Master of Education (Educational Research and Evaluation), Major Field: Educational Research and Evaluation, Department of Education. Thesis Advisor: Miss Pikul Ekwarangkoon, Ph.D. 127 pages.

The purpose of this research were 1) to develop the Integrated Learning Unit in mathematics substance on The Relationship between Two-Dimensional and Three-Dimensional Geometry for Mathayomsuksa I 2) to determine the quality of Integrated Learning Unit on The Relationship between Two-Dimensional and Three-Dimensional Geometry. To identify the quality, it requires three components: the performance of the unit 80/80, Evaluation of the students’ skills and process, Evaluation of the students’ desirable characteristics. The expected results were at least 80% of students having a good or above score from both evaluation. The population for the research included 27 students and 9 teachers of Mathayomsuksa I at Nonkumturechaturajwittaya (Rotary1) in Benjaluk district, Sri Sa Ket province. The instruments used in the research consisted of achievement test, skills and processes evaluation form, desirable characteristic evaluation form. The data were analyzed by content analysis, means and percentages.

The results of this research revealed that the integrated learning unit in mathematics substance on “The Relationship between Two-Dimensional and Three-Dimensional Geometry” was regarded as an integrating the content from the department linked to learning, teacher learning by groups such depictions knowledge but sometimes teachers will learn together on the same subject. This learning unit included three units: geometry with wisdom of Thai, geometry creating to artistry and geometry with Buddhism. The second one was the integrated unit figures possessed the efficiency of 86.33/80.63. The results of the students’ skill and process 100 percent of student had the score was good to go. The students’ desirable characteristics 89 percent of student had the score was good to go and according to the criteria.

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Student’s signature

Thesis Advisor’s signature