



**TITLE :** The Development of Multimedia on the Topic of the World  
Phenomenon in Learning Area of Science for Prathomsuksa 6

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### **ABSTRACT**

The purposes of this research were to 1) develop Multimedia on the topic of the World Phenomenon in Learning Area of Science for Prathomsuksa 6 to evaluate the quality. 2) develop Multimedia based on the value of the efficiency.(80/80) 3) compare the achievement through the Multimedia before and after the learning. 4) study index of effectiveness for the Multimedia. 5) study the satisfaction of the experimental group after learning through of the develop Multimedia. and 6) study the learning retention of the learners who learned with the Multimedia. The samples were 20 Prathomsuksa 6/2, students at Srikutwaruengwet School selected through simple random sampling by drawing lots. The instruments were the Multimedia on the World Phenomenon, an achievement test, an evaluation form of the Multimedia and assessment form of the satisfaction with the learning. The research statistics used for analyzing data were mean, standard deviation percentage and t-test. (Dependent) The results of the research demonstrated that 1) The experts' opinion on the quality of Multimedia at a high level. ( $\bar{X} = 4.49$ , S.D = 0.55) 2) The efficiency of Multimedia was 87.75/84.25 higher than the standard was fix. 3) The learning achievement after using the Multimedia was significantly higher than before learning at .05 level. 4) The effectiveness index of the students was 0.7097 5) The students showed their satisfaction was at the higher level ( $\bar{X} = 4.71$ , S.D = 0.49) and 6) The retention of learning of students, achievement reached the standard.