

Maetawee Lopradit 2008: The Effect of Web - based Instruction Usage with Two Types Presentation on the Title Reflection of Light of Mathayomsuksa 2 Students. Master of Education (Educational Technology), Major Field: Educational Technology, Department of Educational Technology. Thesis Advisor: Assistant Professor Sasichai Tanamai, Ph.D. 103 pages.

The objectives of this research were 1) to construct web - based instruction by linkage with direction and without direction on reflection of light for Mathayomsuksa 2 students which the efficiency 80/80 criteria, 2) to compare the students' learning achievement studying from web - based instruction by linkage with direction and without direction on reflection of light of Mathayomsuksa 2 students; and 3) to study the students' opinion toward the web - based instruction by linkage with direction and without direction on reflection of light.

The sample consisted of 72 Mathayomsuksa 2 students of Wat Sookpriwan school, studying in second semester of 2007 academic year. They were divided into two experimental groups by simple random sampling. The instruments were web - based instruction by linkage with direction and without direction, the learning achievement test and opinion toward web - based instruction questionnaire. Data were analyzed by percentage, mean, standard deviation and t-test.

The results showed that 1) the efficiency of web - based instruction on reflection of light for Mathayomsuksa 2 students by linkage with direction and without direction were 87.08/84.72 and 84.17/81.25 respectively, 2) the learning achievement of students who studied through web - based instruction by linkage with direction and without direction were significantly different at .05 level; and 3) the students' opinion toward the web - based instruction by linkage with direction were at most level and web - based instruction by linkage without direction were at more level.

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