

Jintana Toedwongworakul, Flying Officer 2012: Development of Web-based Instruction on Alternative Energy for Mathayomsuksa 2 Students. Master of Education (Educational Technology), Major Field: Educational Technology, Department of Educational Technology. Thesis Advisor: Associate Professor Saroch Sopeerak, Ed.D. 166 pages.

The objectives of this research were: 1) to develop the Web-based Instruction on Alternative Energy for Mathayomsuksa 2 Students at the efficiency 80/80 of criteria, 2) to compare the learning achievement score with pretest score. 3) to study the students' satisfactions toward Web-based Instruction on Alternative Energy.

The sample group in this research was 30 Mathayomsuksa 2/1 students at Satrinonthaburibangyai (nonthakitpisan) school during the second semester in the 2011 academic year, The student were selected by the cluster sampling. Research tools were Web-based Instruction on Alternative Energy for Mathayomsuksa 2 Students, quality evaluation form, pretest and learning achievement test and questionnaire on the students' satisfactions toward Web-based instruction . Data were analysed by percentage, mean, standard deviation, and t-test.

The research results were as follows: 1) the efficiency of Web-based Instruction on Alternative Energy was according to the criteria, 2) the learning achievement score was significantly higher than the pre-test score at .05 levels, 3) the students' satisfactions toward Web-based Instruction on Alternative Energy was at the high level.

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Student's signature

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Thesis Advisor's signature