Kotchaphan Noonsung 2011: Development of Web-based Instruction to Enhance the Consciousness on Global Warming and Renewable Energy for Mathayomsuksa 1 Students. Master of Education (Educational Technology), Major Field: Educational Technology, Department of Educational Technology. Thesis Advisor: Associate Professor Narong Sompong, Ph.D. 150 pages.

The objectives of this research were: 1) to development the Web-based Instruction on Global Warming and Renewable Energy for Mathayomsuksa 1 students at the efficiency 80/80 criteria, 2) to compare the learning achievement score with pretest score. 3) to study the level of consciousness of Mathayomsuksa 1 students on Global Warming and Renewable Energy and 4) study the students' opinions toward Web-based Instruction to enhance the Consciousness on Global Warming and Renewable Energy.

The sample group in this research was 30 Mathayomsuksa 1/1 students at Ladplakhaopittayakom school Bangkok during the second semester of the 2010 academic year. The students were selected by the cluster sampling. Research instruments were Web-based Instruction to enhance the consciousness on Global Warming and Renewable Energy, the achievement test, consciousness test in Global Warming and Renewable and questionnaire on the students'opinions toward Web-based Instruction to Enhance the Consciousness on Global Warming and Renewable Energy. Statistics used in this study were percentage, mean, standard deviation and t-test.

The results were as follows: 1) the efficiency of Web-based on Global Warming and Renewable Energy was according to the criteria, 2) the learning achievement score was significantly higher than the pre-test score at .05 level, 3) the consciousness of the students on Global Warming and Renewable Energy was at high level, and 4) the students' opinions toward Web-based Instruction was at good level.

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