

Phawida Sai-opash 2014: Development of Web Based Instruction on the Perception of Science Based on the Programme for International Student Assessment for Mathayomsuksa 3 Students. Master of Education (Educational Communications and Technology), Major Field: Educational Communications and Technology, Department of Educational Technology. Thesis Advisor: Associate Professor Jongkol Kanperm, M.S.Tech.Ed. 114 pages.

The purpose of this research were to 1) develop the Web Based Instruction on the Perception of Science Based on PISA with efficiency at 80/80, 2) compare the achievement scores with the pre-test scores from Web Based Instruction, 3) compare the learning on Web Based Instruction achievement between control group and experimental group, 4) study the satisfaction of Mathayomsuksa 3 Students after the learning from Web Based Instruction.

The sample consisted of 45 Mathayomsuksa 3 Students of Watnongree school and Wathadan school studying in second semester of 2013 academic year. They were selected by cluster sampling. The instrument used for research were Web Based Instruction, achievement test, the student satisfaction questionnaire on Web Based Instruction. The data were analyzed using mean, standard deviation, t-test dependent.

The research result show that 1) the quality of Web Based Instruction on the Perception of Science Based on PISA at 81.51/81.52 criteria, 2) achievement score of student learning on Web Based Instruction on the PISA higher than pre-test scores at .05 level 3) achievement score of experimental groups higher than control groups learning on Web Based Instruction on the Perception of Science Based on PISA at .05 level, 4) the students' satisfaction on developed Web Based Instruction on PISA were at good levels.

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Student's signature

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Thesis Advisor's signature