

Sathaporn Bhuthongkan 2012: Learning Process Using Resources with Cooperative Learning on Life and Environment to Develop Learning Achievement and Attitudes towards Science of Grade 6 Students. Master of Education (Science Education), Department of Education. Thesis Advisor: Associate Professor Sunan Sung-ong, Ph.D. 166 pages.

The purpose of this study were 1) to construct the Learning Process using Resources with Cooperative Learning, 2) to compare pre-test and post-test of science learning achievement on Life and Environment with Learning Process using Resources with Cooperative Learning of Grade 6 students, 3) to compare pre-test and post-test of attitudes towards science by Learning Process using Resources with Cooperative Learning of Grade 6 students.

The sample consisted of 24 grade 6 students in a primary school under the Office of Pathumthani Service Area 2, during the second semester of the 2011 academic year which were selected by purposive sampling. The instruments used in the research was comprised of (1) 4 lesson plans with Learning Process Using Resources with Cooperative Learning on Life and Environment, (2) a 30 item learning achievement test with difficulties ranking from 0.21 to 0.79, discriminating powers ranking from 0.21 to 0.50 and reliability of 0.89, (3) a 33 item questionnaire on attitudes towards science with corrected item-total correlation from 0.21 to 0.71 and reliability of 0.895 and (4) the individual interview form. The collected data were analyzed by the use of mean, standard deviation, Dependent-samples t-test and content analysis.

The research revealed that

1. Learning Process using Resources with Cooperative Learning consisted of 5 steps which were Survey step, Learning Activity step, Evaluation step, Conservation step and Application with Publication step.
2. Grade 6 Students that studied with the learning process using Resources with Cooperative Learning had the learning achievement score in science class of statistical significance greater than before the learning by .05.
3. Grade 6 Students that studied with the learning process using Resources with Cooperative Learning had the attitudes towards science score of statistical significance greater than before the learning by .05.

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Thesis Advisor's signature