

Yanit Wattanapailin 2014: The Development of Scientific Concept about Weather of Fifth Grade Students by Using Inquiry - based Learning. Master of Education (Science Education), Major Field: Science Education, Department of Education. Thesis Advisor: Associate Professor Preeya Boonyasiri, Ed.D. 254 pages.

This research aims to study the scientific concept about weather of students in grade 5 and the factors that cause success or hinder to the scientific concept about weather of students in grade 5 by Inquiry – based Learning.

Groups studied in this research are that students grade 5 students of academic year 2011. The tools for the research were the survey of scientific concept about weather, classroom observation field notes and interview. The data from the content of the concepts was analyzed and categorized and comparing before and after learning. The contents from the classroom observation field notes and interview were also analyzed.

The results showed that 1) learning process by Inquiry – based Learning could develop the student's scientific conceptions about the weather, which was increasing. Although there were no change in some conceptions. 2) the factors that promote the development of scientific concept about weather were the hands-on experience, the videos and research by students. The factors that would be a problem / obstacle to the development concept were an elusive concept, the student lack concentrate and noise.

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Student's signature

Thesis Advisor's signature