

Pacharawan Chamnanprai 2012: Research-Based Instruction Model in Sciences for Enhancing Learning Outcomes of Prathomsuksa 4 Students at Watchatkeawchongkonnee School, Bangkok. Master of Education (Educational Research and Evaluation), Major Field: Educational Research and Evaluation, Department of Education. Thesis Advisor: Acting Lieutenant Wongsatit Wattanaseree, Ed.D. 184 pages.

The purposes of this research were 1) to develop teaching management guideline in “science” subject through action research method for Prathomsuksa 4 students at Watchatkeawchongkonnee School, 2) to study the learning results as knowledge, understanding, research method skill, and expected characteristics. The samples of this research were Prathomsuksa 4 students in one room at Watchatkeawchongkonnee School, selected by purposive selection. The research instruments were consists of teaching program by research method, achievement test, activities evaluation form, and expected characteristics evaluation form. The data were collected by testing the students learning outcomes, portfolios, and observe their behavior. The frequency, percentages were used to analysis the data by compares with the criteria.

The results of this research found that 1) There were seven steps for teaching management. First, survey the students interesting field study, (survey planning) to identify area and prepare any equipments for field study. Second, survey in the field study (observe the environment), to survey, record, and develop the research question in the interested areas. Third, indentify the research questions (analysis and adjust the research question), to select the interesting questions, analysis and develop to the research question. Fourth, develop the expected answers (research methodology planning), to set up the objectives, hypothesis, variables, and instruments presentation. Fifth, collect the data in the field study. Sixth, organize the data (discussion and conclusion), to analysis, translate, discussion and conclusion the data. Seventh, enrich new experience (report writing and presentation), to writing a report, present the results to lecturers and student in the class. 2) Teaching by using research method can develop the students’ knowledge, understanding, research method skill, and to be expected characteristics.

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Student’s signature

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Thesis Advisor’s signature