Phatcharaphon Taothamphitak 2007: The Effect of the Forensic Science Activities for Developing Problem-Based Learning of Level III Students. Master of Arts in Teaching, Major Field: Teaching Science, Department of Education. Thesis Advisor: Associate Professor Sunan Sung-ong, Ph.D. 178 pages.

The objectives of this research were: 1) to construct the forensic science 2) to develop problem-based learning in problem solving case from the forensic science activities after use activities and 3) to study students' opinion of the activities.

The sample consisted of 21 level III students of one coed school in commission on higher education, ministry of education of the second semester, academic year 2006 selected by means of purposive sampling. The research instruments consisted of the forensic science activities called "Who killed Sarochini", the observation formed by the teacher and the opinioniares of the activities. The sample performed the activities by problem-based learning that had 8 steps for 6 weeks. The data collected were evaluated in students' achievements of the activities, students' behaviors in problem-based learning and students' opinions of the activities. The collected data were analyzed for the mean and percentage.

The results of this research indicated that the percentage of the mean of activities scores were 78.59% and the students' behaviors in problem-based learning were marvelous. Students agreed that the content and educational activities were assisted students who make scientific solving problem skills and work as a team. Students agreed that they used higher thinking in scientific methods, worked as a team or individually, did the activities those challenged of students' abilities and activities processor (researcher) could carry on the activities to be interesting.

It could be concluded that the forensic science activities supported the students can develop problem-based learning in problem solving and the students agreed that the forensic science activities were assisted students who make scientific solving problem skills and work as a team.

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