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SAKUNA YUANGTHONG : THE DEVELOPMENT OF A NATURE TRAIL GUIDE BOOK IN SALAENGPANTHA VILLAGE FOR THE LOWER SECONDARY STUDENTS : WARAPORN SRISUPAN, M.Ed., SARANARAT KARNGANAVANIT, Ph.D. 124 P. ISBN 974 663 – 154 – 3

The objectives of this research were to develop a nature trail guide book for the route of Dek – Rak – Pa to Huakansaeng - Payoa in Salaengpantha Village, and to study the studying behavior of the students as individual learning and group process.

The research was divided into three steps. First was development of the guide book which including the knowledge of the ecological aspects of area, natural resource usage and conservation methods. The learning activities are both individual learning and group process. Second was the editing and improvement of the guide book by local group and educational experts, and the trying out with 1 group of 5 lower secondary students. After that it was edited and improvement by the group of experts again. And the third step was experimented the guide book with 10 groups of 80 lower secondary students. The method of pretest – posttest design was chosen and applied to t – test and one – way ANOVA method for statistical analysis of scores.

The result showed that the sampled group of 80 students, after using the guide book, increased their knowledge significantly at the 0.05 level. The behaviors in learning by group process of students were reading the guide book, using equipment, analyzing data, and interested in activities of the guide book. The behaviors in learning by individual learning were reading the guide book, observing and learning about the area. It can be concluded that this guide book can be used as a media for self directed learning and by using this guide book, the knowledge about nature of the secondary school students can be improved. They were suggested in adding details of a farm to be showed in the guide book.