Thanyawan Chaisiri 2006: Comparative Study of Learning Achievement by Computer Multimedia Program in Environment and Natural Resources by Sign Language Translator between Student and Teacher for the Hearing – Impaired Students. Master of Education (Educational Technology), Major Field: Educational Technology, Department of Educational Technology. Thesis Advisor: Assistant Professor Jongkol Kanperm, M.S.Tech.Ed. 98 pages.
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The objectives of this research were 1) to construct the Computer Multimedia Program on Environment and Natural Resources with student sign language and teacher sign language for the hearing – impaired students 2) to compare the learning achievement by Computer Multimedia Program on Environment and Natural Resources by Sign Language Translator between Student and Teacher for the Hearing – Impaired Students.

The sample was 54 hearing –impaired students in grade 4 - 6 of Satesathean School, The students were divided into 2 groups. The first group learned from sign language Translator between Student and Teacher for the Hearing – Impaired Students, and the other group learned from teacher sign language. Data were analyzed by percentage, mean, standard deviation, and independent t-test.

The results showed that 1) the efficiency of comparative with computer multimedia program on Environment and Natural Resources with student sign language were 80.55/81.66 and teacher sign language were 79.16/82.55 which were higher than 75/75 criteria and 2) there was no significantly difference between the students' learning achievement of 2 types of computer multimedia programs at the .05 level.

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