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SURAPA RODDEJ : THE DEVELOPMENT OF HYPERMEDIA COMPUTER  
ASSISTED INSTRUCTION ON ECOSYSTEM FOR MATAYOMSUKSA 1  
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The purpose of this research was to develop hypermedia computer assisted instruction on ecosystem for matayomsuksa 1 students and to examine the instruction's effectiveness in terms of students' learning achievement and the quality of hypermedia computer assisted instruction. The procedure began with the construction of the hypermedia computer assisted instruction using Authoring System to organize the content preparation and software design. The revision and modification made after the three test trials with matayomsuksa 1 students and the evaluation by experts in the field before the final use. T-test was employed to test the differences between the pre - test post - test scores of the experimental and control groups. Sixty students were selected based on their GPA. These students were randomly assigned to the experimental and control groups of 30 students each .

The results of this research revealed that the post – test scores of the students in the experimental group who studied with the hypermedia computer assisted instruction were significantly higher than their pre - test ones and higher than those of the control group at the 0.05 level, while the pre - test and post - test of the control group scores were not significantly different. Accordingly, the hypermedia computer assisted instruction should be an effective learning tool for matayomsuksa 1 students who were similar to this group.

In the evaluation of the hypermedia computer assisted instruction, matayomsuksa 1 students were found to be satisfied. Students thought that the instruction was of good quality in terms of its contents, the bright colour pictures, illustrations with hypertext in hypermedia and language used including musical sound.