

# **An Investigation of the Conditions of a Computer Learner in Class**

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## **Abstract**

The aim of this paper is to introduce the Web application system used for the following investigation and to report the results. The investigation was conducted in the computer literacy class of Hokkaido Bunkyo University.

The Web application system was designed to facilitate a real-time on-line investigation into the level of understanding of all learners as they were learning a unit on presentation software in the class. To clarify the main features of this Web application used in the present investigation, other Web application systems will also be discussed.

The instruction in the unit on presentation software was provided in several segments and the students in the class were asked in each segment to answer questions to see how much they understood the instructional contents. Comparative analyses of their answers indicated that the level of understanding was different in each learner, and that previous experiences with a PC would make a significant difference in student comprehension. This implies the importance of PC experiences in pre-collegiate education as well as that of our understanding of the diversity of students' PC experiences.