

The communication model and team involved ability of elementary student in CSCL environment -using motivated collaboration learning system

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Abstract

The important of computer-supported collaborative learning environment has been proved, the learning performance of students would improve in CSCL environment. However, there was few studies have explicitly incorporated the element of motivation into the collaboration learning. This study developed the motivated collaboration learning system (MCLS) to explore the effects of the MCLS on children's team involved ability, and analyzed the communication model in the MCLS. There were fifty eight 11–12-year-old students who using the MCLS in the project during the unit of aboriginal cultural and creative industries in CSCL environment for 6 lessons. At first, the aboriginal cultural and creative industries was introduced in the class, then students were required to design a marketing planning project to sell the merchandise with aboriginal culture element, the project was demonstrated in the end of the lesson. This study demonstrated the positive effects of motivated collaboration learning on students' team involved ability toward project-based learning. The results also indicated that the communication model of students in the MCLS showed less Unresponsive commutation through the process. These findings demonstrated that the motivated collaboration learning system is an effective tool to enhance elementary students' learning in project-based learning that promoting positive team involved ability.

Keywords: Encouraging collaborative learning system, team invoved ability, communication model