

온라인 학습 공동체를 이용한 과학 교수-학습 방법이  
고등학생의 만족도에 미치는 효과

Investigating the High School Students' Satisfaction  
in a Science Class assisted with an Online Learning Community

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This study investigated the satisfaction of students with a new educational system, the Online Learning Community (OLC), which involves Web-based system to supplement the school science curriculum. In the OLC, students were asked to classify the factors underlying their satisfaction with the system, and then analyze changes in that classification over time. Data were collected from 62 Korean junior high school students by interview and by an open-ended questionnaire that was designed to ascertain the reasons underlying their satisfaction with the OLC. According to the modified classification based on Davis (1989), there are three explanations for the students' satisfaction with the OLC: Usefulness, Ease of use, and The fun factor. The main findings in the present study are as follows; first, 'usefulness' was cited most frequently as the factor underlying their satisfaction with the OLC. Second, the citation frequency of 'ease of use' increased significantly ( $p < 0.0001$ ) over time. Finally, the increase of ease of use with time can lead to an increase in usefulness, and which can also bring about enhancement of usefulness can also bring about an increase in the usage of the new, innovative environment. The Web-based system utilized in the present study is currently in the process of being implemented nationally in Korea.