

## Active Learning Lesson for Disaster Preparedness Education using Tablet and Cloud Computing Services

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Japan is a country of frequent natural disasters, such as earthquakes, floods, landslides, volcanic eruptions, and so on. The disaster emergency evacuation drill has been conducted at all schools in Japan for several decades therefore. However, natural disaster could happen at any time. 1995 Kobe earthquake, for example, occurred at 5.46 am and 6,400 people were killed at least in total. Hence disaster prevention education has to be more promoted to enable students to think and act on their own about safety of the local circumstances. This study shows an example of how active learning can be used for disaster preparedness education using tablet and cloud computing services. It consists of a classroom session and fieldwork session. The first session is for raising awareness of natural disasters and evacuation signs. In this session, students use tablets for filling out the questionnaires by Google forms. After increasing students' interest in disaster prevention, students attend fieldwork education with using Google Maps, Runtastic, and several web services. The students could actively take photos of evacuation signs and upload to their own local map of their familiar campus environments. This lesson can possibly increase chances to learn appropriate knowledge and skills for disaster management.

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