

Abstract

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A silent video is a type of task that can be used in the various classes. In the presented work, silent video task was implemented in the physics education, and in the pre-service physics teacher education. First, the term silent video task was defined for physics education. Its history in the world was zoomed at and the method of its creation in physics was described, as well as the method of evaluation. As part of the dissertation, 30 silent videos were created for elementary and high schools. Silent video was also included in the physics high school education to develop students' critical thinking. It was implemented in the pre-service physics teacher. This type of task is a suitable means of developing students' evaluation skills. The development of communication skills was studied using silent video as part of the research we carried out with future physics teachers. A silent video commenting strategy was created with communication skills and critical thinking cognitive skills in mind. Based on the results of the survey, it can be concluded that by using the silent video task, it is possible to develop the communication skills of pre-service physics teachers.

Key words: silent video task, physics education, communication skills, critical thinking