

An Effective Hands-On Experiment in Light and Optics for Grade 10 Students

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This research aimed to develop and implement a set of hands-on experiment in light and optics. The subjects were 38 tenth grade students in an extended high school of Supanburi province on academic year 2014. The instruments used were a set of hands-on experiment in light and optics, the Light and Optics Conceptual Evaluation (LOCE) test, and student experiment's report. The data were analyzed by calculating average, standard deviation, t-test and average normalized gain. The result indicate that the students' conceptual understanding of the light and optics were higher in posttest than those in pretest ($p < .05$). The average class normalized gain was at the medium gain level ($g = 0.67$). The study illustrated that a hands-on experiment is effective and can be used to develop students' concepts.

Summary

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