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Bounce Light System Device for Teaching Optics to Elementary School Students

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During Basic Education in Mexico, we seek to develop scientific thinking. Students are also expected to understand and explain physical phenomena through interaction with the environment. The objective of this article is to share the didactic experience implementing the use of a device, called Bounce Light System, designed to teach light reflection at school level and develop scientific thinking.

The analysis of the experience was developed in three phases: 1) design of the device, 2) implementation of the teaching resource and 3) results of the implementation. The participants were students between eight and ten years old who were studying primary education.

Education level

Age under 12 (Primary education or earlier)

Physics topic

Other

Research focus

Active learning

Research method

Educational design research (Qualitative research)

Organizing preference criteria

Education level

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