



Contribution ID: 77

Type: **Poster**

Optics Experiments as a Teaching Resource for the Development of Scientific Thinking in Elementary School Students

Wednesday, July 5, 2023 4:20 PM (20 minutes)

The development of scientific thinking is one of the objectives that is established through the teaching of Natural Sciences and Technology, during elementary education in Mexico. The objective of this study is to analyze the relationship between the use of experimental activities related to the optical phenomena of reflection and refraction of light as a didactic resource to promote the development of scientific thinking. The method is based on design-based research, carried out in three phases: a) preliminary research, b) prototype design, and c) prototype evaluation. The participants were 60 students from 8 to 10 years old.

How would you like to present your contribution?

Live in Košice (time slot to be allotted based on the programme)

Target education level (primary)

Primary school education

Target education level (secondary, optional)

Lower-secondary education

Primary authors: GARCÍA GAITÁN, Claudia Carolina (Universidad Pedagógica Nacional 241, CICATA Legaria IPN); RAMÍREZ DÍAZ, Mario Humberto (CICATA Legaria, IPN); ARRIAGA SANTOS, Carlos Adrián (Universidad Politécnica de San Luis Potosí)

Presenter: GARCÍA GAITÁN, Claudia Carolina (Universidad Pedagógica Nacional 241, CICATA Legaria IPN)

Session Classification: Poster session 1