



Contribution ID: 247

Type: **Oral presentations**

Towards overcoming students' difficulties in understanding graphs

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This study was designed to overcome students' difficulties in interpreting motion graphs and describing motion through graphs. We used tasks involving motion that can be observed in everyday life, such as a modified PISA racing car problem, and designed a short intervention. Eye-tracking technology was used to track participants' visual attention while they completed the tasks and analysed the supporting questions. The results highlight the challenges of responding too quickly and treating graphs as pictures. The findings underline the benefits of even a short intervention that encourages a reflective approach and addresses intuitive reasoning to improve students' understanding motion graphs.

How would you like to present your contribution?

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

Target education level

General

Category

Formal Education

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Session Classification: Oral presentations

Track Classification: Evaluation and Assessment of Student Learning and Development