

Using technology for maths teaching and learning: instructional design, digital books and automated feedback

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In this talk I will give an overview of research on the affordances of using technology in teaching and learning mathematics. In particular I will emphasise:

- Give an overview of specific affordances of technology and its role in instructional designs.
- How technology is more and more integrated, allowing for digital maths books. Show what affordances technology can have in the design of digital maths books, through examples from the MC-squared and enGasia projects.
- Some features of these digital maths books, for example the feature to provide customised automatic feedback, check geometric constructions and store student data.

Attendees can bring their own technology to try out some of the software.