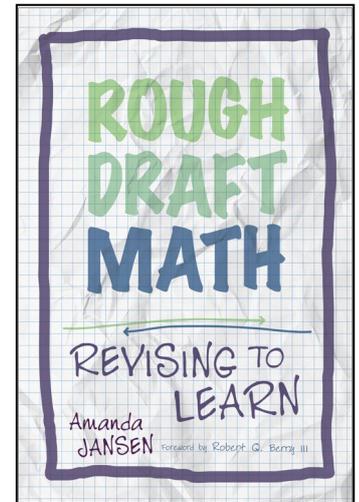


Rough draft math: Revising to learn

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Summary

Many students, especially as they get older, only share their thinking in mathematics class when they're sure they have the right answer. This means that some students hardly talk at all. Yet, talking and writing about in-process and unfinished ideas are vital to learning mathematics. How can we meet this challenge? Amanda (Mandy) Jansen and her collaborating teachers have developed a breakthrough approach: expand the idea of 'rough drafts' to the mathematics classroom.

In *Rough draft math*, Mandy shares the power of infusing mathematics class with the spirit of revision so that students feel comfortable thinking aloud as they talk to learn through problem-solving, rather than talking only to perform right answers. In the process, a class of students becomes a community of mathematical thinkers and teachers gain access into their students' ideas and understandings.

Inside you'll find the following:

- an exploration of what the idea of revision could mean for mathematics teaching and learning
- classroom vignettes to see rough draft mathematics in action
- specific teaching techniques to encourage and practice rough draft thinking
- voices of teachers and students in rough draft classrooms
- Mandy's reflections about her own teaching as a work in progress.

In *Rough draft math*, Mandy shows how to create a classroom culture in which your students will feel more comfortable expressing their partial understandings and in-process thinking, and then continually revising that thinking as they build a deep, conceptual understanding of mathematics.

Other resources

- *Moving math: How to use thinking skills to help students make sense of mathematical concepts and support numeracy development* (PBP8498)
- *The four roles of the numerate learner: Effective teaching and assessment strategies to help students think differently about mathematics* (PBP8921)
- *Teaching mathematical thinking: Tasks & questions to strengthen practices and processes* (TCP3370)
- *Thinking allowed: Thinking tools for the mathematics classroom* (HB9645)