



Young Mathematicians at Work

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Description

These multi-media environments include video clips of lessons, samples of children's work, and interviews with teachers and children from NYC public school classrooms. The focus is on children's thinking, and on the big mathematical ideas they are constructing and the various strategies and models they use in their investigations.

The materials in each package are designed

- to challenge teachers' beliefs about teaching and learning;
- to develop teachers' ability to use context to support mathematical development;
- to hone teachers' skills to become astute kid watchers, enabling them to maximize learning moments;
- to allow for investigation of pedagogical strategies that support the development of learning communities, characterized by risk taking and genuine inquiry;
- to give teachers an opportunity to construct their own landscape of learning, a long-term trajectory of models, strategies, and big ideas;
- to deepen teachers' understanding of the mathematics they teach and their ability to design mental math activities and mini-lessons for efficient and flexible computations.
- to provide exemplars of lessons that epitomize NCTM Standards;
- to provide a rich body of resources for research for those who wish to pursue an in-depth investigation of questions that have been raised.

Participants

They have materials available for P-8 teachers. Also they have designed the CD-ROMs to be self-guided, with prompts to lead you along through the video clips, most activities are designed for whole group discussions and partner work.

Facilitators

The facilitator's guides are quite extensive (almost overwhelming!) with a lot of sample questions and activities. However, while the guide does offer a lot of support, the richness of the materials necessitates a lot of time and/or experience in order to make sense of all the material. Being tech savvy is also a big plus.

Format

There are 3 kits, K-2, 3-5, and 6-8. Each kit includes an *Overview Manual*, A companion book by Fosnot & Dolk, and 5 CD-ROMs with accompanying Facilitator's Guides.

Materials

Pictured: Exploring soda machines: A context for division (2001). Heinemann. ISBN Individual guides, CD-ROMs and books are available. See their website for additional materials at: <http://www.mic3217.addr.com/intro/desc.html>