

Multiplication and Division Minilessons, Grades 3-5 (CDs) (Young Mathematicians at Work)

Maarten Dolk, Catherine Twomey Fosnot

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In their series of professional books for teachers, *Young Mathematicians at Work*, Catherine Twomey Fosnot and Maarten Dolk described Mathematics in the City, an innovative project where teachers helped young children construct a deep understanding of number and operation in a math-workshop environment. Now they and two colleagues from the project have developed a flexible, video-based, digital context for inquiry into the teaching and learning of mathematics that will change how professional development is conducted.

Designed for you, the workshop leader or college instructor, the *Multiplication and Division Minilessons Resource Package* enables your in- or preservice teachers to not only watch but interact with video that depicts classroom teachers as they listen to, question, and interpret students' thinking; develop connections between mathematical ideas and strategies; and, ultimately, develop vibrant mathematical communities in their classrooms.

The Resource Package includes three valuable components:

- Two completely interactive **CD-ROMs**, one each for multiplication and division, where your workshop participants can explore-independently or under your guidance-videos of instruction and assessment; sample children's work over time to analyze development; take and save notes on what they see; capture specific frames or footage; and then email their captured video clips and notes to other members of your professional development workshop. The context of the classroom will be at the fingertips of your participants for exploration.
- A **Professional Development Overview Manual** that provides general advice on how you can use the CD-ROMs for staff development.
- A **Facilitator's Guide** whose field-tested content is specific to the CD-ROMs and includes helpful suggestions for using video clips and student examples on the CDs to design rich professional development experiences; sample dialogue to help you anticipate what your participants might say; tips for facilitating discussions among teachers; and descriptions of the mathematical ideas being explored.

In *Multiplication and Division Minilessons*, clips of teachers conducting effective minilessons in real classrooms show you how these short, focused sessions can build big mathematical thinking in young learners.



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