

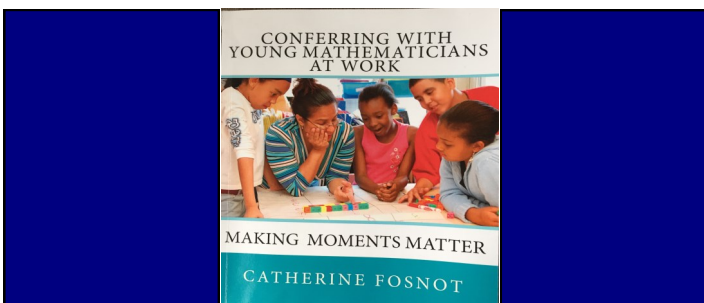
The Development of Numeracy, K-6: the Four Operations

Cathy Fosnot
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*Cathy Fosnot is CEO and President of New Perspectives on Learning. An award-winning author, she speaks around the world on the topics of numeracy and producing vibrant math communities in K-8 classrooms. She is the author of **Young Mathematicians at Work** and the curriculum series **Contexts for Learning Mathematics** and was the founding director of Mathematics in the City—a national center for professional development at The City College of New York. She is also the senior content advisor for the award-winning internet environment, **DreamBox Learning** and the President of **New Perspectives on Assessment** and **New Perspectives Online**.*

Cathy has recently published several new CFLM units on geometry and measurement and a new book entitled **Conferring with Young Mathematicians at Work**. They are available on Amazon.com.



- Learn how to support efficient computation, sense-making, and a strong understanding of number and operation
- Explore mini-lessons crafted with strings of related problems designed to support a repertoire of mental math strategies
- Help children feel like “real mathematicians” at work
- Analyze and use various representational models in powerful ways as tools to support numeracy
- Learn how to design and implement strings of related problems to ensure learning
- Analyze with Cathy three developmental trajectories: 1) Early Number Sense, Addition and Subtraction; 2) Multiplication and Division; 3) Operations with Fractions .
- Learn how to use them as a framework for formative assessment, powerful questioning, and representing children’s thinking.
- Study math workshop in action through video from exemplary classrooms