

## Sleepover Catherine Twomey Fosnot

Contexts for Learning Mathematics Fostering Children's Mathematical Development, Grades 3-5  
Taking Inventory, PreK-3 Investigate the Number System Investigate Multiplication The Mystery of the Meter Working with the Array, Grades 3-5 Fostering Childrens Mathematical Development Working with the Number Line, Grade 2 The Box Factory Organizing and Collecting Exploring Parks and Playgrounds Investigate Fractions Games for Early Number Sense Multiplication and Division Minilessons, Grades 3-5 (Resource Package) Young Mathematicians at Work Learning to Support Young Mathematicians at Work Exploring Ages, PreK-3 Working with the Number Line, Grade 2 Young Mathematicians at Work Catherine Twomey Fosnot Catherine Twomey Fosnot Maarten Dolk Catherine Twomey Fosnot Catherine Twomey Fosnot Bill Jacob Maarten Dolk Maarten Dolk Maarten Ludovicus Antonius Marie Dolk Miki Jensen Nina Liu Catherine Twomey Fosnot Catherine Twomey Fosnot Antonia Cameron Antonia Cameron Catherine Twomey Fosnot Catherine Twomey Fosnot Maarten Dolk Antonia Cameron Catherine Twomey Fosnot

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building on their influential research into best practices in mathematics education catherine twomey fosnot and colleagues from mathematics in the city and the freudenthal institute have organized their carefully crafted investigations into dynamic curriculum units called the contexts for learning mathematics cflm series study guide

designed for the workshop participant or preservice teacher this cd rom enables you to watch and interact with video that depicts classroom teachers as they listen to question and interpret students thinking

designed for workshop participants and preservice teachers the taking inventory cd rom offers users a multi media learning environment for professional development on topics ranging from instruction to assessment that stimulates action reflection and discussion with dynamic video clips childrens work samples and interviews with students and teachers

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the rich open investigations we ve developed allow children to engage in mathematizing in a variety of ways we honor children s initial attempts at structuring and modeling their world mathematically while at the same time supporting and challenging them to ensure that important big ideas and strategies are being developed progressively catherine twomey fosnot learn how to establish a vibrant collaborative math workshop for students in grades 3 through 5 and how catherine fosnot and her colleagues introduce early multiplication strategies and show students how to work with the ratio table and the distributive property through 2 foundational books investigating multiplication and division overview and the big dinner multiplication with the ratio table and nine online video clips cathy and her colleagues provide the strategies lesson plans and tools you ll need to transform your classroom into a community of young mathematicians in the overview book cathy provides the professional understandings needed to establish a vibrant math workshop after chronicling the motivations and ideals that inspire her work cathy describes how to help students construct the big ideas strategies and models that shape the landscape of learning ensuing sections describe the architecture of an investigation and explain how the predictability of this framework fosters independence and collaboration in addition to describing the management systems that make these investigations rigorous and responsive cathy suggests ways to sequence instruction and highlight how units can be used to enhance your existing curriculum like the other units in the contexts for learning mathematics series the big dinner multiplication with the ratio table provides a two week sequence of investigations minilessons games and other contexts for learning in this unit the preparation of a turkey dinner introduces early multiplication strategies and supports automatizing the facts using the ratio table and developing the distributive property with large numbers strings of problems guide learners toward computational fluency with whole number multiplication and build automaticity with multiplication facts by focusing on relationships the nine accompanying video clips include live from the classroom video footage of the unit in action and narrated slide shows that describe the ideals that shape the math workshop and the thinking behind the contexts for learning mathematics series video clips are free for 6 months upon registration you must register within 6 months of purchase learn more about these resources and the series at contextsforlearning com this pack is part of firsthand s getting started series bridging the gap between educational theory and practice firsthand classroom materials model the carefully crafted techniques and language of master teachers in ways that help teachers refine their practice and reinvent their own teaching the most comprehensive of these resources span more than a year of instruction firsthand s getting started packs were created for teachers in training and professional book study groups who want a compact affordable way to study and tryout these transformative classroom materials each getting started pack includes an overview book a complete unit of study online video clips provided free of charge for 6 months and an accompanying study guide getting started packs include launch a primary writing workshop grades k 2 launch an intermediate writing workshop grades 3 5 launch an intermediate reading workshop grades 3 5 introduce the qualities of writing grades 3 6 monitor comprehension with primary students grades k 2 monitor comprehension with intermediate students grades 3 6 investigate the number system grades k 3 investigate multiplication grades 3 5 investigate fractions grades 4 6

contexts for learning mathematics series is designed to support a conceptual understanding of essential mathematical ideas strategies and models each unit provides a two week sequence of investigation minilessons games and other contexts for learning the series 18 classroom tested units are organized into grade appropriate levels

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contexts for learning mathematics series by catherine fosnot and colleagues from mathematics in the city and the freudenthal institute uses carefully crafted math situations to foster a deep conceptual understanding of essential mathematical ideas strategies and models

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the rich open investigations we ve developed allow children to engage in mathematizing in a variety of ways we honor children s initial attempts at structuring and modeling their world mathematically while at the same time supporting and challenging them to ensure that important big ideas and strategies are being developed progressively catherine twomey fosnot learn how to establish a vibrant collaborative math workshop for students in grades 4 through 6 and how catherine fosnot and her colleagues introduce fractions and compare fractional amounts through 2 foundational books investigating fractions decimals and percents overview and field trips and fund raisers introducing fractions and eight online video clips cathy and her colleagues provide the strategies lesson plans and tools you ll need to transform your classroom into a community of young mathematicians in the overview book cathy provides the professional understandings needed to establish a vibrant math workshop after chronicling the motivations and ideals that inspire her work cathy describes how to help students construct the big ideas strategies and models that shape the landscape of learning ensuing sections describe the architecture of an investigation and explain how the predictability of this framework fosters independence and collaboration in addition to describing the management systems that make these investigations rigorous and responsive cathy suggests ways to sequence instruction and highlight how units can be used to enhance your existing curriculum like the other units in the contexts for learning mathematics series field trips and fund raisers introducing fractions provides a two week sequence of investigations minilessons games and other contexts for learning the fair sharing of submarine sandwiches on a school field trip provides

the context for exploring big ideas related to fractions in this unit in attempting to settle arguments about the fair distribution of sandwiches students explore the connection between division and fractions as well as ways to compare fractional amounts as the unit progresses students use the double number line as a model and explore equivalent fractions the nine accompanying video clips include live from the classroom video footage of the unit in action and narrated slide shows that describe the ideals that shape the math workshop and the thinking behind the contexts for learning mathematics series video clips are free for 6 months upon registration you must register within 6 months of purchase learn more about these resources and the series at contextsforlearning com this pack is part of firsthand s getting started series bridging the gap between educational theory and practice firsthand classroom materials model the carefully crafted techniques and language of master teachers in ways that help teachers refine their practice and reinvent their own teaching the most comprehensive of these resources span more than a year of instruction firsthand s getting started packs were created for teachers in training and professional book study groups who want a compact affordable way to study and tryout these transformative classroom materials each getting started pack includes an overview book a complete unit of study online video clips provided free of charge for 6 months and an accompanying study guide getting started packs include launch a primary writing workshop grades k 2 launch an intermediate writing workshop grades 3 5 launch an intermediate reading workshop grades 3 5 introduce the qualities of writing grades 3 6 monitor comprehension with primary students grades k 2 monitor comprehension with intermediate students grades 3 6 investigate the number system grades k 3 investigate multiplication grades 3 5 investigate fractions grades 4 6

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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

explains how children between the ages of four and eight construct a deep understanding of numbers and the operations of addition and subtraction

our digital lab environment provides an active more meaningful professional development experience which empowers teachers to integrate theory and practice we offer teachers the opportunity to embark upon their own landscape of learning journey catherine twomey fosnot the bestselling young mathematicians at work series has helped tens of thousands of teachers inspire deep mathematical understanding in students with its signature workshop approach the contexts for learning mathematics series has helped even more teachers bring that approach into their classrooms to align their math program to the standards of practice in the common core now cathy fosnot and her colleagues have developed an invaluable resource that gives teachers ownership of the core ideas and essential understandings of early algebra learning to support young mathematicians at work offers professional development providers interactive meaningful tools to help teachers deepen their algebraic thinking within a unique digital environment two dvds feature classroom sessions that show students exploring the sequence of investigations and activities found in the popular contexts for learning mathematics algebra unit books trades jumps and stops and the california frog jumping contest extensive classroom video footage allows participants to study children over time and examine and analyze their development as well as the teacher s pedagogy the user can respond to prompts create video clips and presentations and explore related materials all from the dvd either alone at home or in a workshop setting the pd facilitator s guide features a flexible menu of workshops ranging from two hour sessions that focus on a particular topic to comprehensive 5 day institutes as participants engage in the investigations they build their own conceptual and pedagogical understanding of algebra and proof questioning and conferring observing children at work in mathematics and using the powerful tools of context and representations these learning experiences foster teachers algebraic thinking and set the stage for robust and active classroom practice that promotes students deep understanding the dvds are also available individually without the facilitator guide for teachers who may prefer to study the material outside of a workshop setting trades jumps and stops dvd california frog jumping contest dvd note the dvd roms are compatible with windows xp vista windows 7 and mac os x up to 10 6 they are not compatible with mac os x 10 7 lion or above

in their young mathematicians at work series 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 operations in a math workshop environment now they and two colleagues from the project have developed a 21st century approach that provides pre and inservice teachers with an interactive video based digital context for inquiry into the teaching and learning of mathematics designed for workshop participants and preservice teachers the exploring ages cd rom offers users a multi media learning environment for professional development on topics ranging

from instruction to assessment and that stimulates action reflection and discussion with dynamic video clips children's work samples and interviews with students and teachers in exploring ages students explore addition and subtraction through the lens of ages building new understandings and strategies and learning concepts like removal missing addends and constant difference as they solve problems that reflect their natural curiosity users also study teachers at work designing rich contexts for problem solving drawing connections between mathematical ideas and strategies and developing a vibrant mathematical community system requirements for cd rom windows pc pentium ii processor 266mhz or higher windows 98 or higher 64 mb ram more recommended svga color display or better 4x cd rom drive or faster sound card 16 bit flashtm player and acrobat reader quicktime 6.0 or higher macintosh powerpc processor g3 233mhz or higher system 9.2 or higher 64 mb ram more recommended svga color display or better 4x cd rom drive or faster sound card 16 bit flashtm player and acrobat reader quicktime 6.0 or higher

in working with the number line students construct a number line initially as a model to represent a measurement situation and then as a model to represent their computational strategies

explains how children between the ages of four and eight construct a deep understanding of numbers and the operations of addition and subtraction

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