

## Mathematics + Literature: A Perfect Pairing

Sue O'Connell

Georgia Literacy Learning Series

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Books Highlighted in the Session			
Title	Author	Possible Math Link	NOTES
Ten Gulab Jamuns: Counting with an Indian Sweet Treat	Sandhya Acharya	Intro to subtraction	
Jalapeno Bagels	Natasha Wing	Multiplying a fraction by a whole number	
Born and Bred in the Great Depression	Jonah Winter	Dividing a unit fraction by a whole number	
Grandma's Purse	Vanessa Brantley- Newton	Counting concepts	
Miss Nelson is Missing	Harry Allard	Adding a single- digit number to a two-digit number	
Too Many Toys	David Shannon	Subtracting two- digit numbers	
Dragons Love Tacos	Adam Rubin	Multiplying by a multiple of ten	
Wangari's Trees of Peace	Jeanette Winter	Multi-digit multiplication	
The Crayon Man: The True Story of the Invention of Crayola Crayons	Natascha Biebow	Exploring the concept of volume	

## What are the benefits of blending math and literature instruction?

- Student engagement
- Read aloud provides a shared experience, so contributes to equitable math practice
- Gets students talking
- Connects math to their lives
- Nurtures problem solving
- Revisits comprehension skills
- Sets a context for writing tasks
- Brings energy to math class
- Promotes math joy

“After reading or listening to a good story, we can’t resist talking about it. We want to share our thinking and hear the thinking of others. Collaboration and reflection are critical ways that students make sense of math.”

Sue O’Connell  
*Math by the Book*

## Math + Literature Resources

For more on Heinemann’s *Math by the Book* series and to download sample lessons and a K-5 literature list: [www.MathbytheBook.com](http://www.MathbytheBook.com)

Some websites to search for literature to use in your math lessons:

- <https://www.mathsthroughstories.org/>
- <https://www.colorincolorado.org/books-authors/books-kids>
- <https://diversebooks.org/resources-old/where-to-find-diverse-books/>
- <https://earlymath.erikson.edu/the-best-childrens-books-for-early-math-learning/>

**Padlet of K-2 Children’s Literature Related to Math Skills/Concepts**

<https://padlet.com/sueoc46/i3uevoy154m1fuhb>

**Padlet of Grades 3-5 Children’s Literature Related to Math Skills/Concepts**

<https://padlet.com/sueoc46/who7w8089bm6r6k2>

**Padlet of K-5 Culturally Diverse Children’s Literature with Math Connections**

<https://padlet.com/georginarivera123/2ygfo12jusaomm7s>

Follow Sue on Blue Sky @sueoconnellmath.bsky.social

Join Sue’s Facebook group at <https://www.facebook.com/groups/MathinPractice>

Explore Sue’s resources, along with links to additional math tools and resources on her website:

<https://www.qualityteacherdevelopment.com/>

## Teacher Resource Materials by Sue O'Connell

### ***Math by the Book (Heinemann)*** ([www.mathbythebook.com](http://www.mathbythebook.com))

This series explores the teaching of math concepts through children's literature. Lessons, word problems, discussion questions, differentiation ideas, and practice tasks are all included to teach grade-specific skills and concepts through the story context. There is a book for each grade level K-5, including a wealth of online resources, and each book includes ideas for twenty skills taught during that year.

### ***Navigating Numeracy Learning Progression Centers (Hand2Mind)***

([www.hand2mind.com/navigating-numeracy](http://www.hand2mind.com/navigating-numeracy))

*Navigating Numeracy* center kits (Hand2Mind) provide everything you need for grade-specific, hands-on, and interactive practice opportunities that guide your K-5 students toward a deep understanding of numbers. Each kit contains 45 repeatable centers that span the skills you teach across the school year. The tasks are engaging and focus on the critical number skills that are a priority in our math standards. Each kit contains a teacher's guide, student task cards, game boards, spinners, game cards, and manipulatives so students can explore the skills through hands-on tasks.

### ***Math in Practice (Heinemann)*** ([www.mathinpractice.com](http://www.mathinpractice.com))

This series is filled with lesson ideas, instructional strategies, practice tasks, and many online printable resources to make teaching K-5 math more meaningful and more fun. There is a book for each grade level K-5 that contains a wealth of grade-specific activities, as well as a *Guide for Teachers* filled with instructional strategies and an *Administrator's Guide*. Visit the website or [www.mathinpractice.com](http://www.mathinpractice.com) to view the materials.

### ***Putting the Practices into Action - Implementing the Common Core Standards for Mathematical Practice K-8 (Heinemann)*** with John SanGiovanni ([www.heinemann.com](http://www.heinemann.com))

The Standards for Math Practice are the heart and soul of the Common Core State Standards. This book explains each standard in teacher-friendly terms and highlights practical activities to make the standards come alive in classrooms. It contains PLC study group questions and online resources.

### ***Mastering the Basic Math Facts for Addition and Subtraction*** ***Mastering the Basic Math Facts for Multiplication and Division*** **(Heinemann)** with John SanGiovanni ([www.heinemann.com](http://www.heinemann.com))

Through investigations, discussions, visual models, children's literature, and hands-on explorations, students explore the math operations, and through engaging, interactive practice achieve fluency with basic facts. Online resources are filled with customizable activities, templates, recording sheets, and teacher tools to simplify your planning and preparation. Over 450 pages of reproducible forms are included in English and Spanish translation.