# Let's Start with a Story: Teaching Math Through Children's Literature K-5 <br> Sue O'Connell <br> @SueOConnellMath 

Nebraska Association of Teachers of Mathematics
Pre-Professional and Early Career Conference
February 25, 2023

## What does it mean to be mathematically proficient?

- Computational fluency
- Conceptual understanding
- Application/problem solving


## What do we want students to know and be able to do?

- Flexible computations
- Conceptual understanding
- Number sense
- Model mathematics in varied ways
- Communicate their mathematical thinking
- Mathematical reasoning
- Problem solving


## Instructional Strategies to Build Math Understanding

1. Step back and let them think.
2. Give math a context.
3. Make math visual.
4. Get them talking.
5. Watch, listen, and adjust our math instruction.

From Math in Practice (Heinemann, 2016)

## What are the benefits of teaching math through literature?

- Engages students
- Helps students make sense of skills and concepts
- Supports problem-solving skills by exploring story situations
- Promotes equity through a shared reading experience
- Encourages talk and collaboration
- Makes math memorable
- Energizes the classroom

[^0]
## Resources for Integrating Math + Literature

## Padlet of K-2 Children's Literature Related to Math Skills/Concepts

https://padlet.com/sueoc46/math-literature-k-2-j3uevoy154m1fuhb

## Padlet of Grades 3-5 Children's Literature Related to Math Skills/Concepts

https://padlet.com/sueoc46/math-literature-3-5-who7w8089bm6r6k2

## Padlet of K-5 Culturally Diverse Children's Literature with Math Connections <br> https://padlet.com/georginarivera123/culturally-relevant-math-literature-2ygfo12jusaomm7s

Join our Facebook community focusing on teaching K-5 math.
Join the Math in Practice/Math by the Book Facebook Group

For more literature lessons related to grades K-5 math standards:
See the Math by the Book series for a wealth of grade-specific lessons, problems, prompts, and practice tasks that begin with a story and then use the story context to teach math skills. www.MathbytheBook.com

See Heinemann's Math in Practice series that features many lessons related to literature as well as a wealth of hand-on lessons for grade-specific math skills and concepts that span your school year.
www.MathinPractice.com
For more ideas: Follow Sue on Twitter @SueOConnellMath or visit her wesite at www.qualityteacherdevelopment.com


[^0]:    "As students solve problems related to story characters and events, their focus extends beyond just how to do math and turns to what math to do."

