Reading and Math Go Together Like PB&J

Presented by:
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Welcome!

my name is...
Resources

https://goo.gl/NLNegb
What do you notice? 🙄

What do you wonder? 🤔
Anticipation Guide:
“a strategy that is used before reading to activate students’ prior knowledge and build curiosity about a new topic”
-AdLit.org
Math and Literacy Go Together Like PB&J
Anticipation Guide

<table>
<thead>
<tr>
<th>Before</th>
<th>Yes or No?</th>
<th>After</th>
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<td>________</td>
<td>I feel confident with integrating literacy in my math time.</td>
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<td>________</td>
<td>I read rich literature aloud during math class.</td>
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<td>________</td>
<td>I know ways to use literacy skills in math.</td>
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Children’s storybooks containing mathematical concepts can be used for making connections between mathematics and the real-life situations from which mathematics naturally springs, without detracting from children’s enjoyment of the story.

-Haekyung Hong
Children's Math Literature Genres

- Counting Books
- Concept Books
- Informational Books
- Poetry Books
- Story Books
Using Texts To Teach Math

Introduce the meaning of multiplication (definition, symbol, relevance)

Build Prior Knowledge

Communicate Mathematical Ideas

Build Mathematical Vocabulary

Make Mathematical Connections

Rows, columns, multiplication, multiplication symbol, multiplication facts

Connect skip counting, arrays, repeated addition, and multiplication

Turn and Talk
Stop and Jot
Stop and Act
Math Interactive Read-Alouds

Teachers’ Responsibilities

▪ Model comprehension strategies (visualizing, making connections, etc.) to lift math content.
▪ Provide instruction that helps facilitate academic conversations that revolve around literacy and math.
▪ Model fluent, proficient reading.
▪ Think-aloud about literacy and mathematical ideas.
▪ Provide opportunities to assess students’ understanding.

Students’ Responsibilities

▪ Actively participate in read-alouds (turn and talk, stop and jot, etc.).
▪ Discuss thoughts and ideas about the big mathematical concepts in the texts.
Planning Math Interactive Read-Alouds

Step One
- Select the text you would like to use. Read the entire text.

Step Two
- Determine the mathematics teaching point for the text.
- Tag the pages that are aligned to the teaching point.

Step Three

Step Four
- Determine the think alouds and interactions for each tagged page.
Teaching Points: Measurement Conversions

- Page 10 – Think Aloud: I know that there are 16 ounces in a pound. I wonder how much the reel of cable weighed in ounces. Stop and jot on your sticky note to determine how many ounces the cable weighed.

- Page 12 – Turn and Talk: Philippe was one hundred and forty feet away. Discuss how you could determine how far away Philippe was from his friends in inches. Stop and jot an equation you could use to determine that. Turn and talk to compare your answer to your neighbor’s.
The Man Who Walked Between The Towers

Purpose: Reinforcement

- Teaching Points: Measurement Conversions
  - Page 13 – Stop and Sketch: The cable landed 15 feet below the roof. Stop and sketch a model that you could use to determine how far the cable landed below the roof in yards.
  
  - Page 15 – Stop and Act: Use your fingers to show me about how thick the cable was that Philippe was going to walk on.
Reflection

1. Describe one book you could use to teach a math concept in your classroom. What concept would you teach with that text?

2. What modifications would make to the *The Man Who Walked Between the Towers* activity to meet the needs of the students you serve?

3. Describe the benefits of using texts to support your math instruction. ...

4. Name and describe at least two different children’s math literature genres.

5. Share one idea that you are excited to use in your classroom this week.

6. How could you deepen your students’ mathematical understanding through writing?
Hey Girl

We got this raffle going on
Planning Small Group Instruction Using Math Texts

Step One
- Select the text you would like to use. Read the entire text. Determine the alignment to NCSCOS.

Step Two
- Determine the purpose for the text – reinforcement, remediation, or extension.

Step Three
- Determine how students will engage with the text – in a small group, with a partner, or individually.

Step Four
- Select the math activity that is aligned to NCSCOS and the text.
Chrysanthemum

Purpose: Remediation
Student Groupings: Small Group

- NCSCOS 2017: **NC. 2.MD.8** - Solve word problems involving:
  - Quarters, dimes, nickels, and pennies within 99¢, using ¢ symbols appropriately.
  - Whole dollar amounts, using the $ symbol appropriately.
- In the story, Chrysanthemum was made fun of because of her name. Use the “A Word’s Worth” chart to determine the value of Chrysanthemum’s name. Then, determine the value of your own name. Whose name is worth more – your’s or Chrysanthemum’s?
Reflection: What literacy read alouds can also be used in math class?

https://goo.gl/adiR8M
HEY GIRL
WE GOT THIS RAFFLE GOING ON
Umm yeah if your writing made any sense at all.

Writing is awesome!

That would...
Why Writing?
Word Splash

- Characters
- Settings
- Plots
- Problems
- Solutions
*What big concepts can you enhance with a word splash?
*In what part of your lesson will this best fit?
Writing to Increase Mathematical Understanding

To be productive citizens and active participants in the world, students must be able to view a variety of texts and understand what they are seeing. *They must be able to visually represent their understanding through pictures, graphs, and other methods.*

-Jennifer Altieri, International Reading Association
What do you notice?

What do you wonder?
At the Lantern Fest in Charlotte, 475 lanterns were released. Of the lanterns that were released, 296 flew straight above our heads. The rest of the lanterns flew out of sight.

What do you notice?

What do you wonder?
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Write again, thinking about what you discussed with your partner.

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Gallery Walk

Remember to only leave...

and
Notice & Wonder

*Think/Write/Pair/Share

*Brainstorm

*Forget the question

*We noticed and wondered...Now what?

Annie Fetter, The Math Forum
TIME FOR another Giveaway!
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Before

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After

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I know ways to use literacy skills in math.
Exit Ticket
https://bit.ly/2qoNbTn
Contact Us

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