

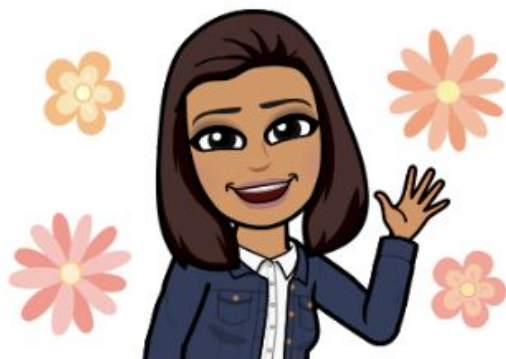


KENTUCKY CENTER
FOR MATHEMATICS

Focus on Place Value with Kimberly Jones

Place Value to 100

Welcome!



Your host

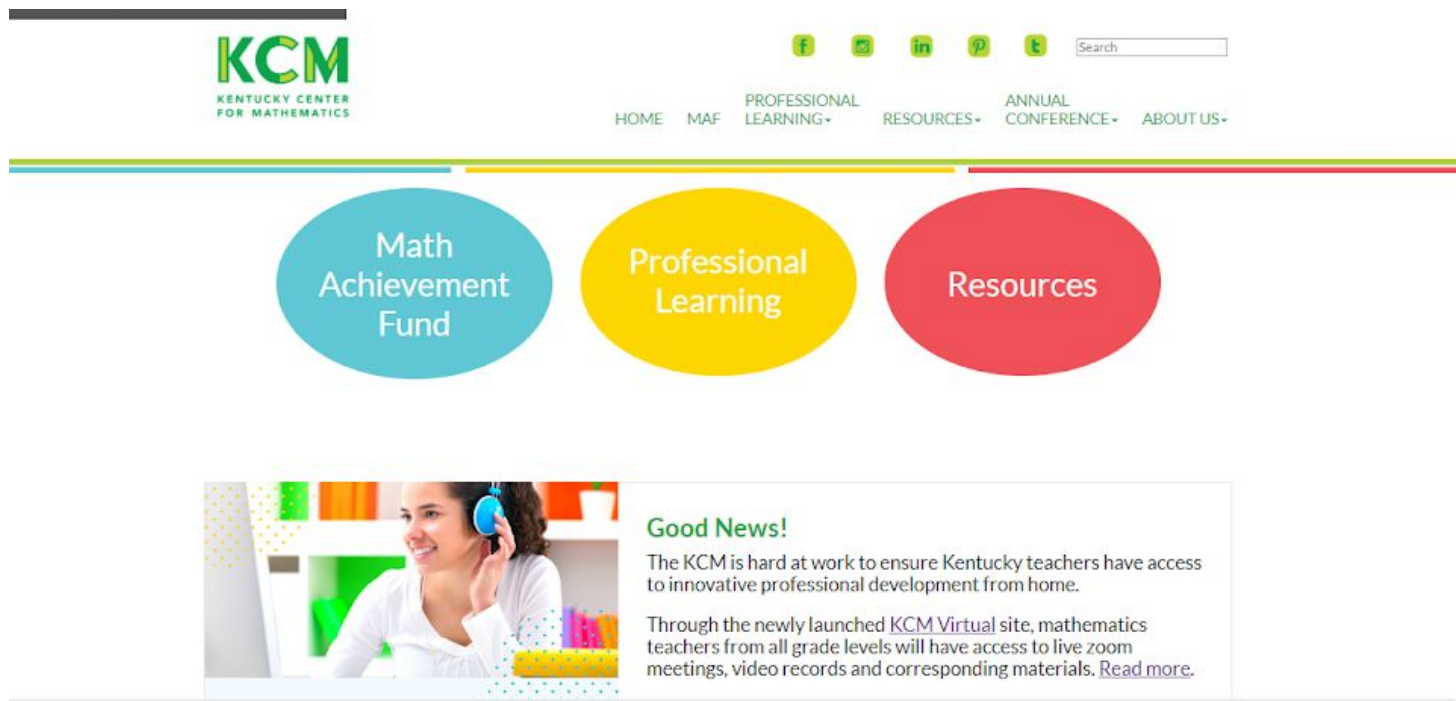
Kimberly Jones

Math Interventionist
Audubon Traditional Elementary School
kimberly.jones3@jefferson.kyschools.us

More about me



KCM Website



<https://www.kentuckymathematics.org/>

Agenda

- The Research
- The Standards
- Delivery Game
- Find the Sum
- Find the Difference
- Graham Fletcher - Base Ten Cards
- Materials

What the research says . . .

“For many students, especially low-attainers, conventional place value approaches do not support the development of mental strategies. The formal manipulations of written symbols and materials involved in conventional place value tasks are not yet meaningful for them.

What the research says . . .

In conceptual place value instruction, by contrast, students build on their informal arithmetical reasoning, which is based in number word sequences and quantities.

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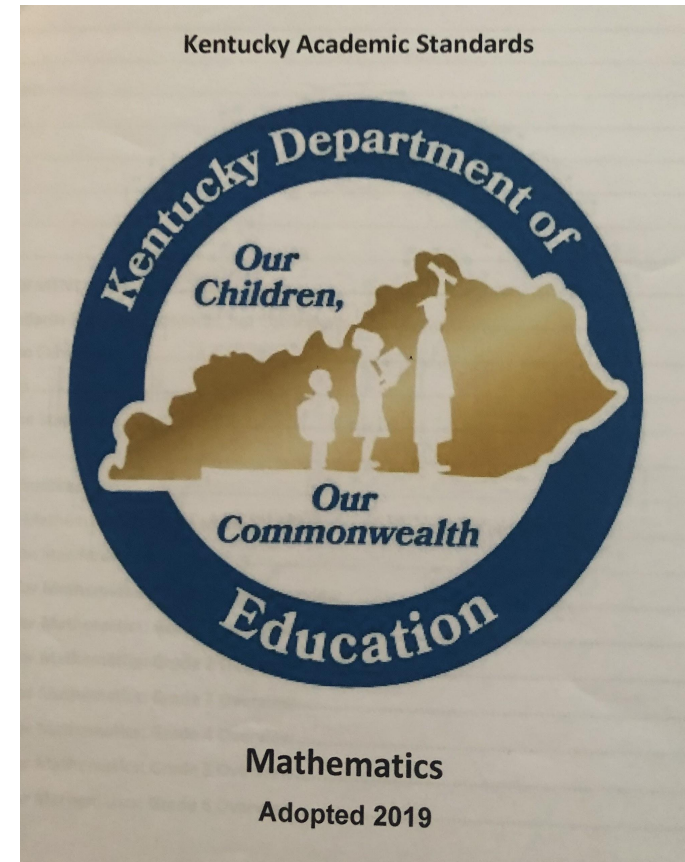
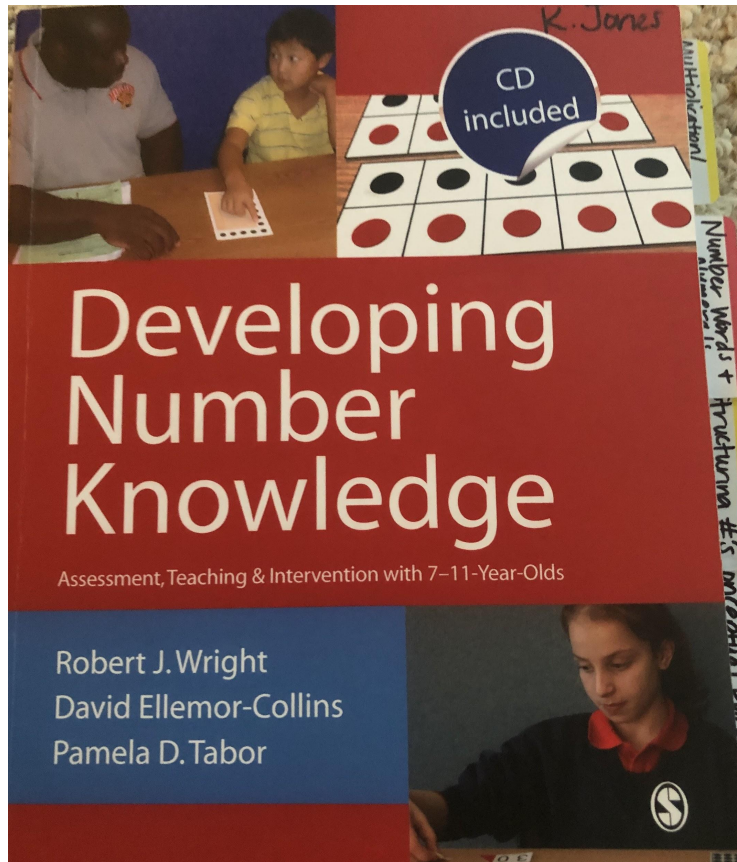
What the research says . . .

Attention is on structuring numbers around dynamic relationships of ones, tens and hundreds. The aim is to cultivate strong mental strategies.” (as

cited in Beishuizen and Anghileri, 1998; Cobb and Wheatley, 1988; Ellemor-Collins and Wright, 2009A; Thompson, 2003; Wright et al., 2006c).


Wright, R. J., Ellemor-Collins, D., & Tabor, P. D. (2012). *Developing number knowledge: Assessment, teaching & intervention with 7 - 11-year-olds* (pp. 82-83). London, England: SAGE.

The Research and the Standards



The Standards

- 1.NBT.4 Add within 100 including adding a two-digit number and a one-digit number. Add a two-digit number and a multiple of 10.
Add within 100 using . . . strategies based on place value;
- 2.NBT.5 **Fluently add and subtract** within 100 **using strategies based on place value**, properties of operations and/or the relationship between addition and subtraction.



“Reaching fluency is an ongoing process that will take much of the year. Students are not expected to use an algorithm for addition and subtraction until grade 4.” 2.NBT.5

Kentucky Academic Standards, Mathematics, Adopted 2019
Kentucky Department of Education

“Students need substantial and enjoyable practice.”

Bay-Williams, J., & Kling, G. (2019). *Math Fact Fluency: 60+ Games and Assessment Tools to Support Learning and Retention*. Alexandria, VA: ASCD.

Delivery Game

Directions:

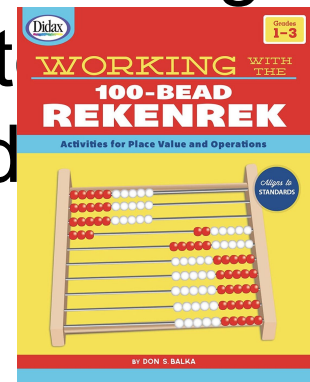
1. Get the tub of bundles and sticks and place where all players can reach.
2. Give each player a Delivery Truck game board.
3. Each player will place 5 bundles and 5 loose sticks on her or his game board.
4. On your turn, draw a game card and follow the directions. Determine your new amount of sticks. Write the matching number sentence.
5. Take turns.
6. Play until all cards are gone. Player with the most sticks wins

Find the Sum

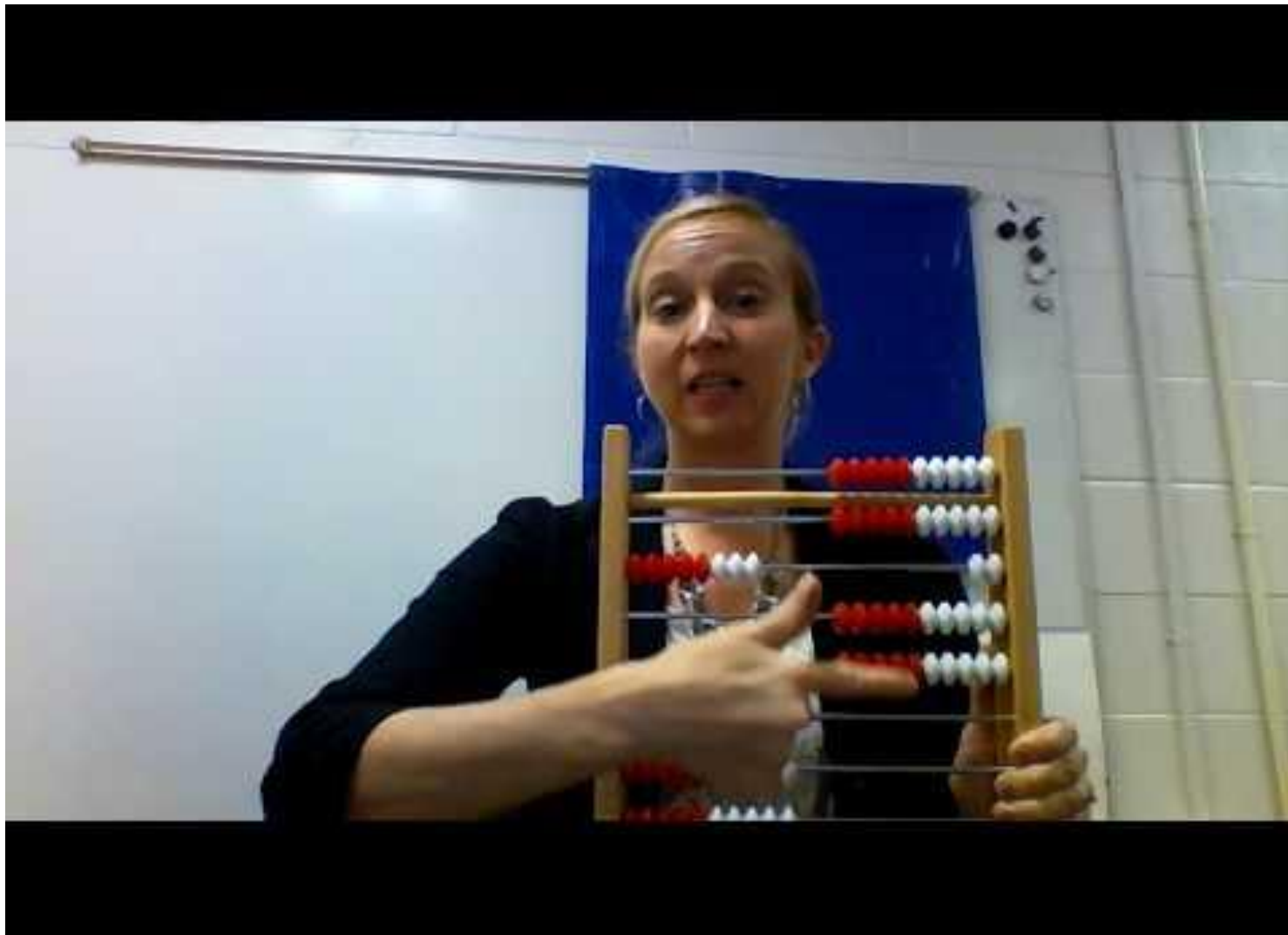
1. One of you will start by drawing 2 two-digit Number Cards.
2. Use your Rekenrek to add the two numbers.
3. Then write a number sentence on your paper showing the addition.
4. Take turns drawing two numbers, finding the sum, and writing number sentence until you have used all of the cards.

<https://toytheater.com/rekenrek-ten-rows/>

Image and activity used with permission from Didax
From working with 100-Bead Rekenrek

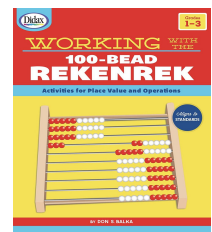


Addition within 100

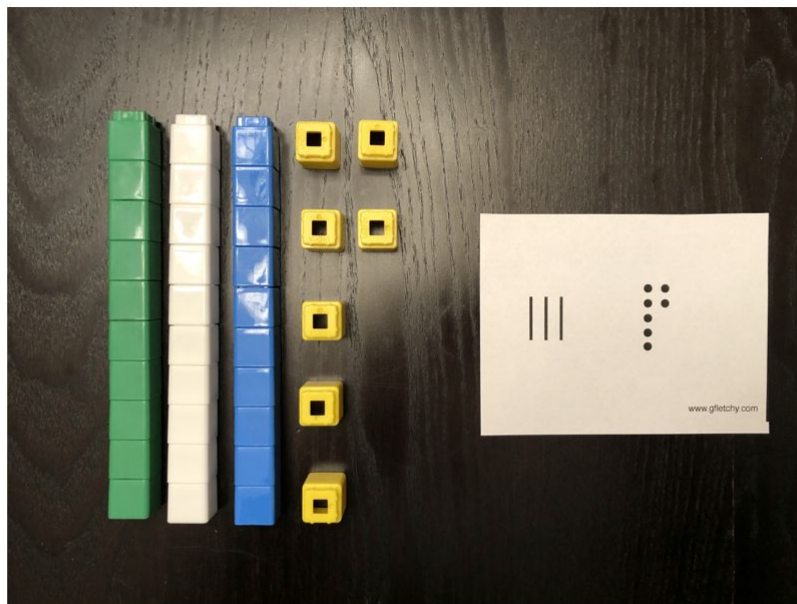


Find the Difference

1. One of you will start by drawing 2 two-digit Number Cards.
2. Identify the bigger number and show that number on your Rekenrek.
3. Use your Rekenrek to subtract the smaller two-digit number from the bigger two-digit number.
4. Write a number sentence on your paper showing the subtraction.
5. Take turns drawing two numbers, finding the difference, and writing number sentences until you have used all of the cards.”

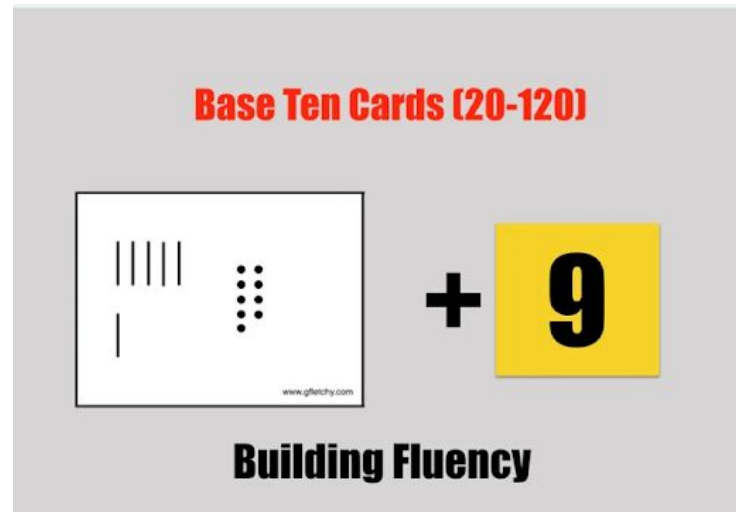


Graham Fletcher



Building Automaticity with Base
Ten Cards

Base Ten Cards (Building Fluency) on Vimeo



<https://vimeo.com/326156268>

Materials

- Delivery Game
- Find the Sum
- Find the Difference
- Graham Fletcher's Base Ten Cards

Upcoming Virtual Professional Learning

APRIL 13 - 17
2:00-2:30 PM EST



Focus on Place Value!

w/ KY Math Leaders

Monday, April 13 - Place Value to 10

Tuesday, April 14 - Place Value to 100

Wednesday, April 15 - More Place Value to 100

Thursday, April 16 - Place Value with Multi-digit Numbers

Friday, April 17 - Place Value with Decimals

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https://www.kentuckymathematics.org/kcm_virtual.php



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KCM Virtual



At this time of social distancing due to COVID-19, the KCM wants to do our part to support Kentucky teachers, students and mathematics education. So we are providing free online mini-classes to educators. No registration is required. Just click "Join Live Session" to participate in the live class via Zoom or, if you aren't available at the class time, click "View Recorded Session" to view the recorded session when it becomes available.

KCM here to support teachers!



Contact me:

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