Virtual Make ‘n Take

Fluency within 10
Welcome!

Your host

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Kentucky Center for Mathematics

- KCM seeks to advance the knowledge and practice of effective mathematics teaching and learning, encompassing early childhood through adult education.
- KCM provides and develops statewide leadership, facilitate professional learning experiences, and cultivate innovation with the aim of improving mathematics education, practice and policy.

KCM Yearly Numbers

- 29 math courses taught
- 73 cohorts of teachers
- Over 1000 KY teachers attending
- Over 182 days of math professional learning
- Over $150,000 of math materials directly in the hands of teachers
- 109 school districts
- 300 KY schools
- 100 principals trained
- >5000 students impacted
- KCM Annual Math Conference national prominence
- Closing the achievement gap for our KY math students.

Math Achievement Fund intervention students (3000) had an average of 10 percentile points gained as a direct result of KCM trained math interventionists.
Visit Our Website

www.kentuckymathematics.org
Today’s Agenda

- Review content standards
- Math Around the House
- Grab Bag Addition
- Tic Tac Toe
- Math Flips
- Virtual resources
- KCM here to support teachers
- #BetterTogether #TeamKCM
Standards

• Kindergarten – K.K.OA.5 FLUENTLY add and subtract WITHIN 5.
• First Grade – KY.1.OA.6 Add and subtract within 20, demonstrating FLUENCY for addition and subtraction WITHIN 10.
Research

Math Around the House

Ask the question, How many …..?
• apples in the bowl?
• socks in the drawer?
• pillows on the bed?
• people in the house?
• books in the basket?
• toys in the box?

What if there was 1 more? What if there was 1 less?
Math Around the House

The Junk Drawer:
Use this time to clean out a junk drawer. Your child can help you sort out the junk.

After items are sorted, ask those how many questions. How many pens?, pencils? keys? tape? … What did we have the most of?

Ask math questions throughout the day, in real settings that make sense. That is real math. That is meaningful practice.
They might decide 7 is the coolest number today and want
Math Around the House

Collections of small objects that can be counted such as:

- Playing cards and dice - These can be used as number generators for other math games.

Board Games: Playing games uses math skills and is FUN!
Grab Bag Addition

From: Developing Number Concepts Book 2 page 144

2 players

Materials:

• paper bag or cup
• a collection of 10 - 16 objects such as pennies, paper squares, cereal, pasta or beans, (can be any like objects that will fit in the bag or cup)

Directions:

• Each player needs 5 - 8 objects.
• Each player chooses an amount to place in the bag and names the amount. (Player 1: I put 5 pennies in the bag. Player 2: I put 4 pennies in the bag.)
• Ask the child, How many are there in the bag altogether?
• Dump and check
• You can then connect to symbolic representations by writing the equations to match the actions. (5 + 4 = 9)
Tic Tac Toe

Materials:
- Tic Tac Toe board,
- dot cards,
- number cards or dice
- 2 different colored crayons or markers.

Directions:
Level 1: use dot cards or dot dice
Level 2: use 1 set of number cards and 1 set of dot cards
Level 3: use number cards or number dice

Each player draws 2 cards or rolls 2 dice and finds the total. If correct they write their total in a square of their choice. Play continues until a player gets 3 squares in a row.
Math Flips

How many? How do you know?

How many NOW? How do you know?

How does A help you with B?
What is the same and different about A and B?

Math Flips routine:

- **Look at side A:** How many? How do you know?
- **Look at side B:** How many NOW? How do you know?
- **After a while, ask generalizing questions such as:** How does A help you solve B? What is the same and different about A and B?
Math Flips

Subitizing Flashcards
(single sided flashcards)

Math Flips: Addition
Count On within 10

Math Flips: Addition
Plus and Minus 1 within 10

Combinations of 10 Flashcards
(front) (back)
Virtual Manipulatives

Didax Math Virtual Manipulatives

Math Learning Center Apps

Number Rack
Number Rack facilitates the natural development of children’s number sense. Rows of movable, colored beads encourage learners to think in groups of fives and tens, helping them to explore and discover a variety of addition and subtraction strategies. Free activities and free book available.

Number Frames
Number Frames help students structure numbers to 5, 10, 20, and 100. Students use the frames to count, represent, compare, and compute with numbers in a particular range.
Visit Our Website

www.kentuckymathematics.org
Upcoming Virtual Professional Learning

Week of March 23-27, 2020  2:00 -2:30 pm EST

Virtual Make ’n Take
With KCM Regional Consultants

Monday, March 23rd     Fluency within 10
                        https://nku.zoom.us/j/557268655

Tuesday, March 24th    Fluency within 20
                        https://nku.zoom.us/j/827307599

Wednesday, March 25th  Fluency within 100
                        https://nku.zoom.us/j/310467581

Thursday, March 26th   Fluency with x and /
                        https://nku.zoom.us/j/290819568

Friday, March 24th     More fluency with x and /
                        https://nku.zoom.us/j/311187020
KCM here to support teachers!

Contact me:

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KCM Support for Educators

- Kentucky Center for Mathematics is here to support our KY educators
- We are aspire to be a national leader in mathematics education

#BetterTogether
#TeamKCM