Math from 1, 2, 3 to XYZ

Welcome!

Please have fun building with your manipulatives!



Math from 1, 2, 3 to XYZ

AACPS Math Coordinator Team:

Karen Riley Jeffers

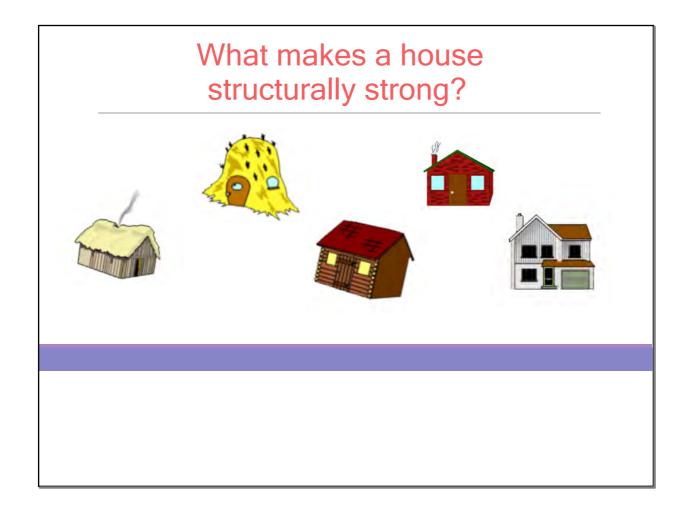
Amy Mullin

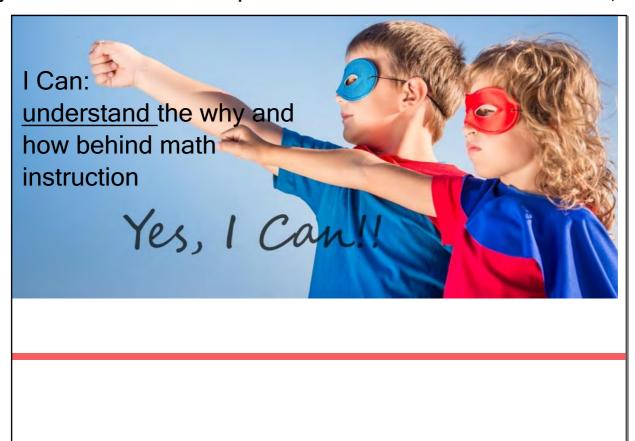
Ruth Goldstraw

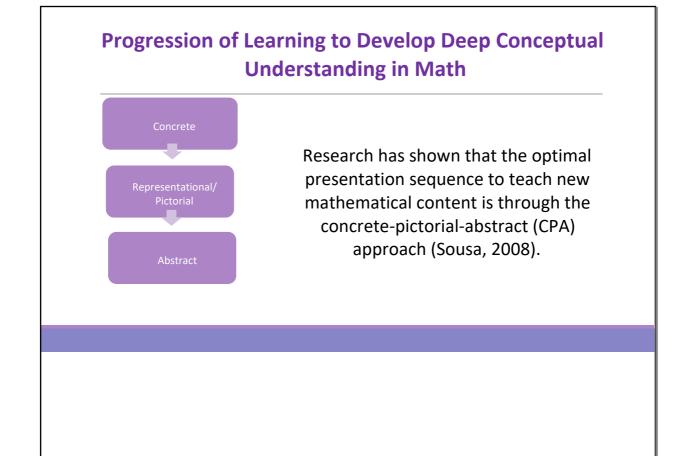
Math from 1, 2, 3 to XYZ

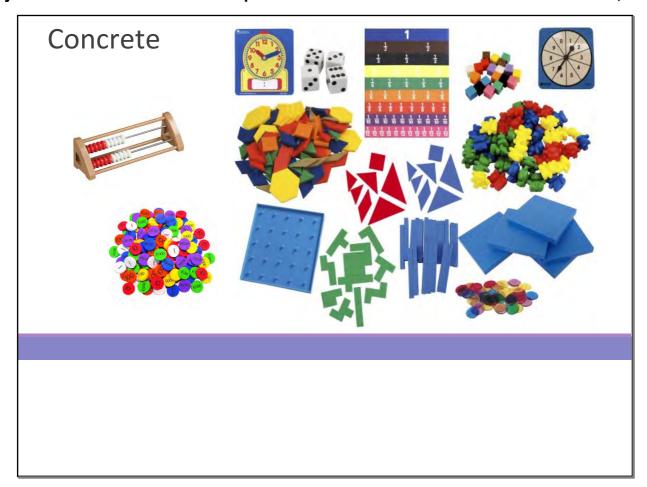
Presenting today:

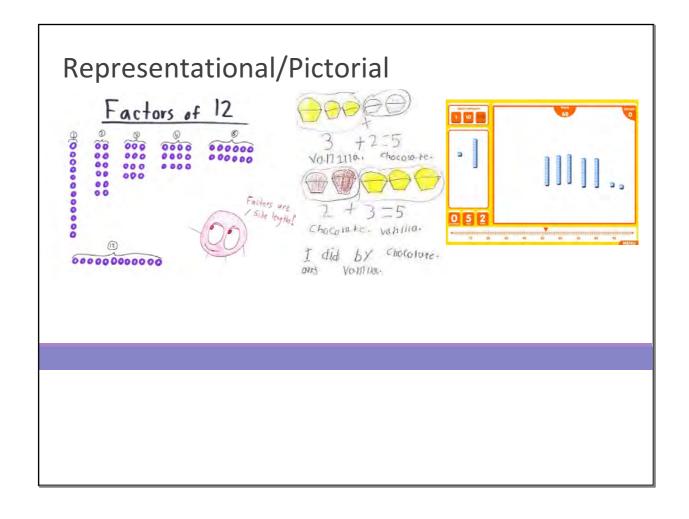
John Halmi Teacher Specialist, High School Math jhalmi@aacps.org

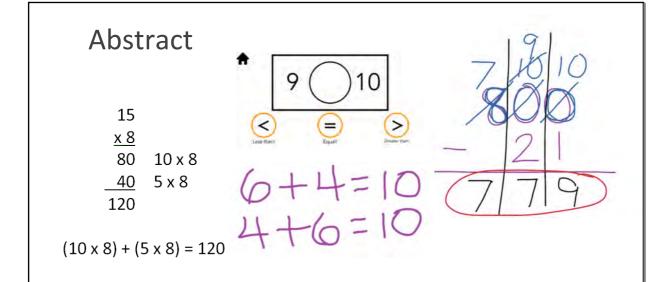


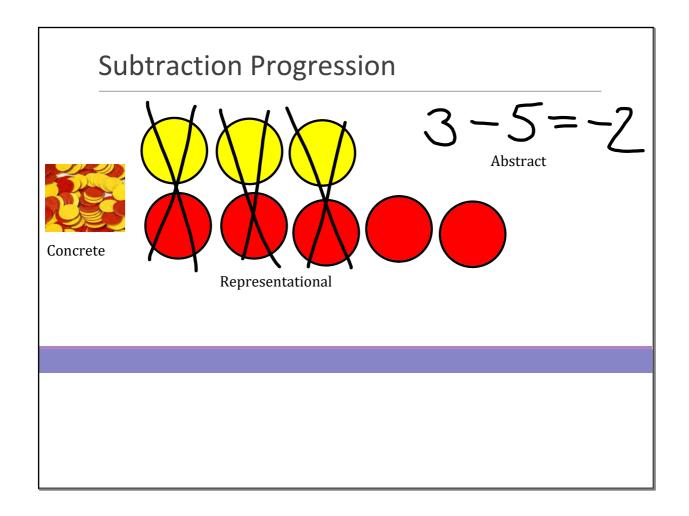












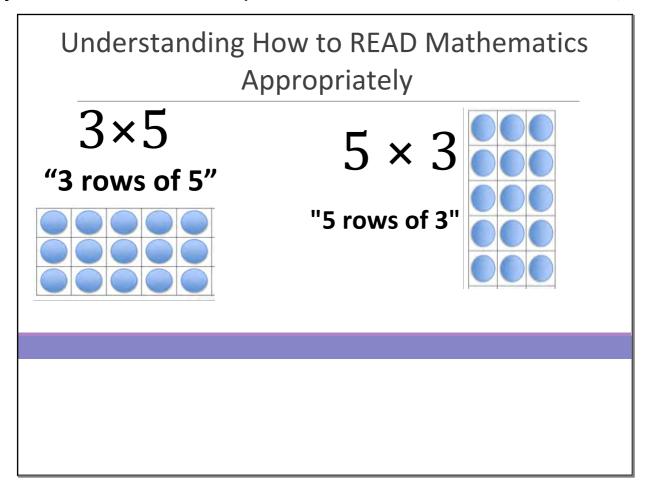
Multiplication Progression

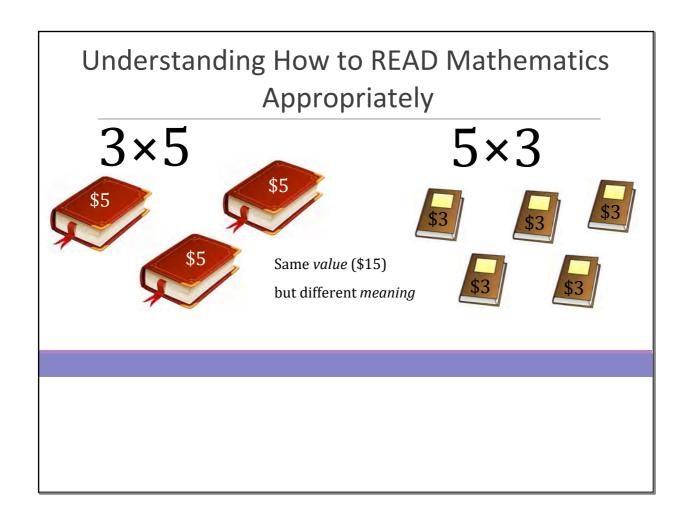


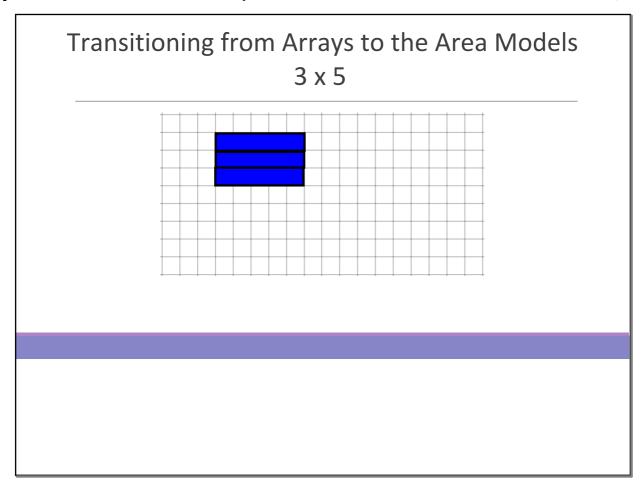
"Rows Of" Gr. 3 - Arrays "...Operations and Algebraic Thinking are about understanding and using numbers... It begins with early counting and telling how many in one group of objects. Addition, subtraction, multiplication, and division grow from these early roots."

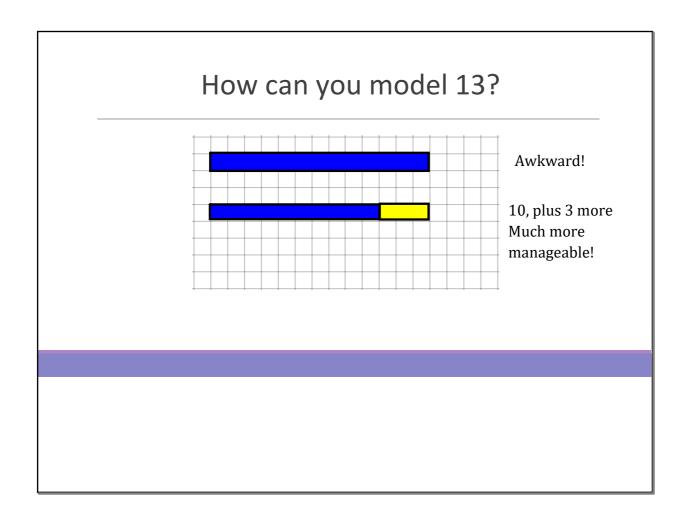
Progressions for the Common Core State Standards in Mathematics K, Counting and Cardinality; K-5, Operations and Algebraic Thinking (p. 2)

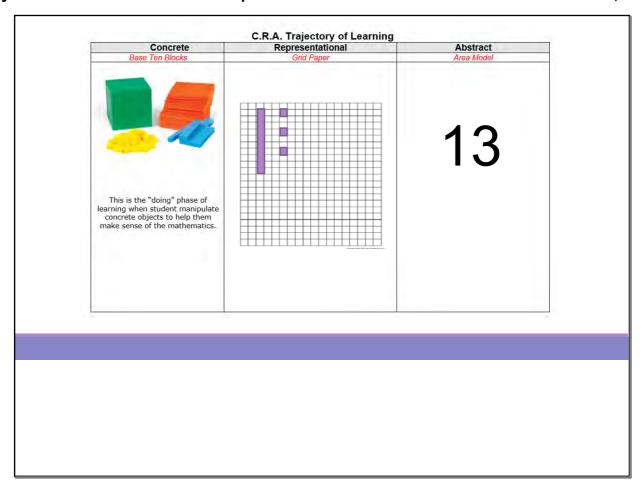
Early Multiplication 3×5 "Equal Size Groups" "Arrays"

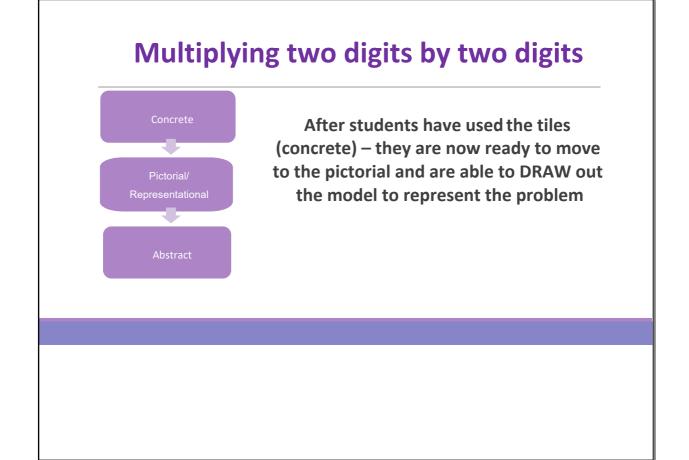


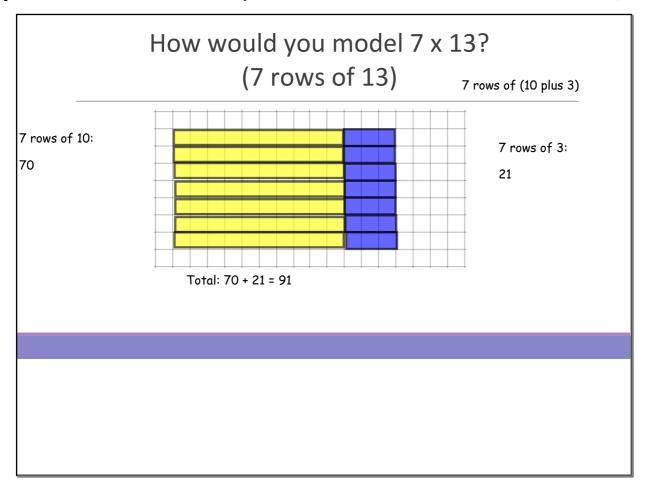


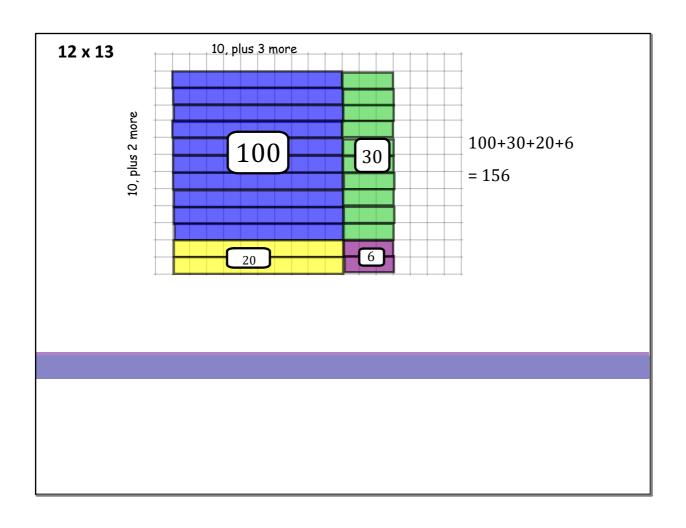


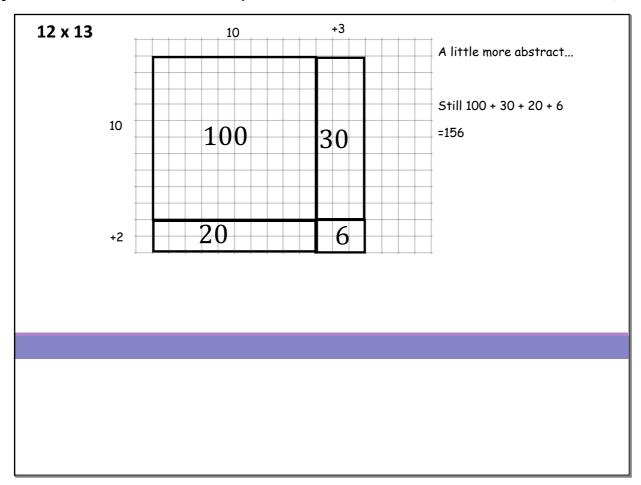


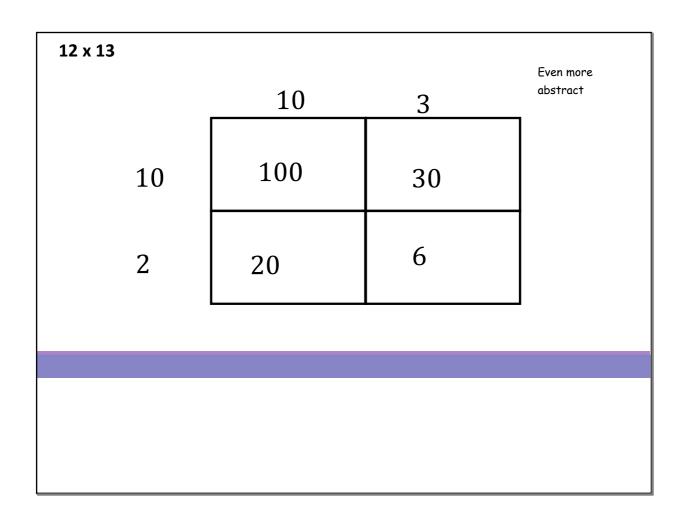


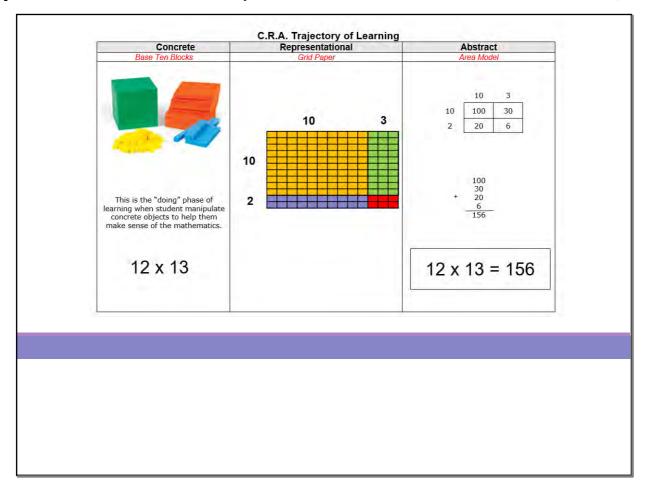


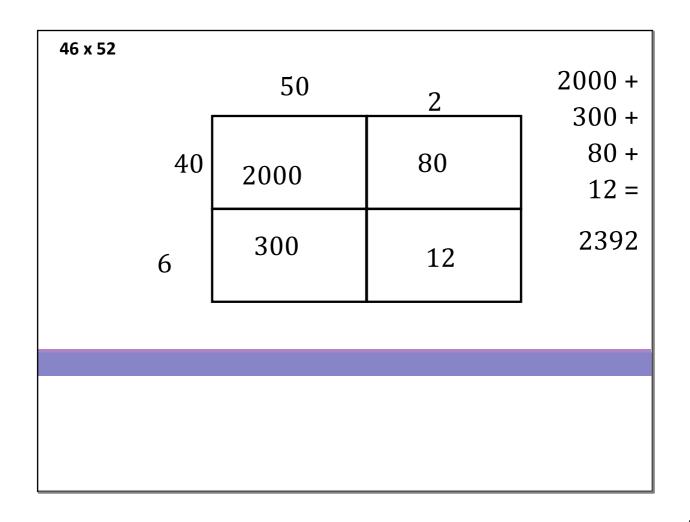




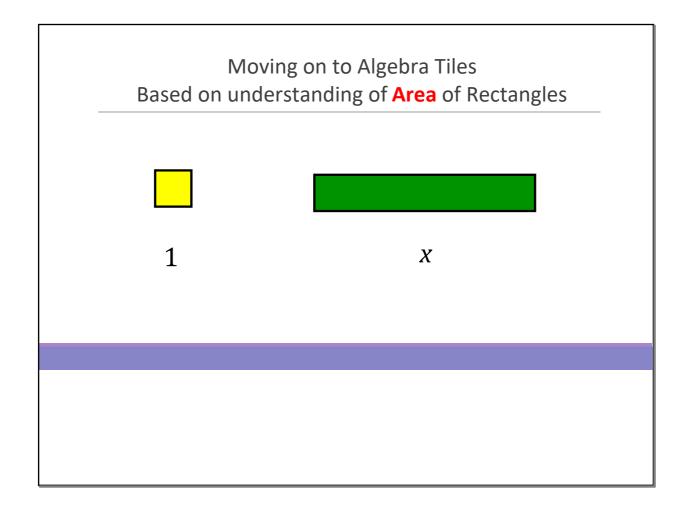




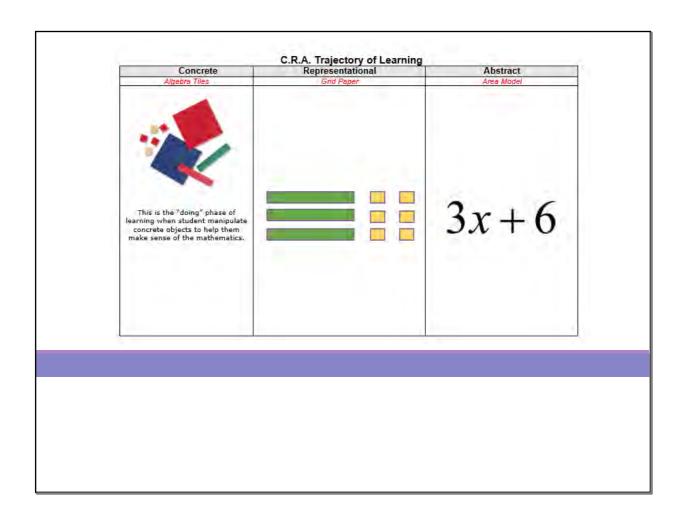


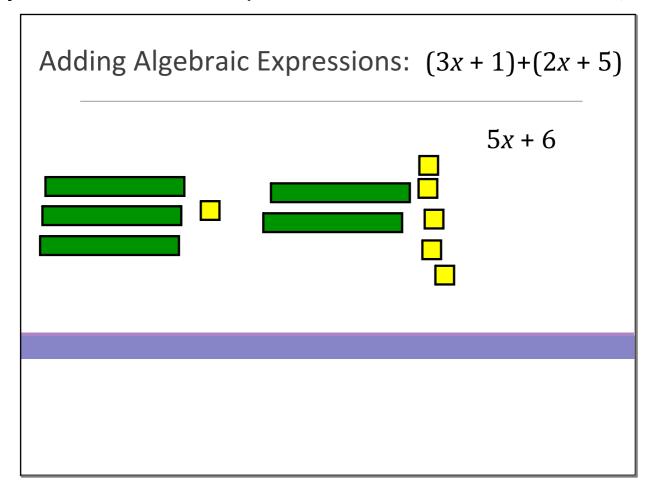


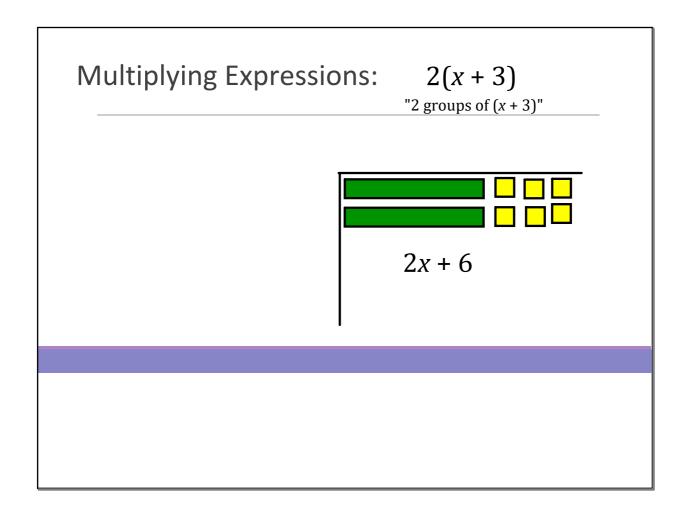
23 x 15			
	20	3	200 +
			100 +
10	200	30	30 + 15 =
			1
5	100	15	345
			J

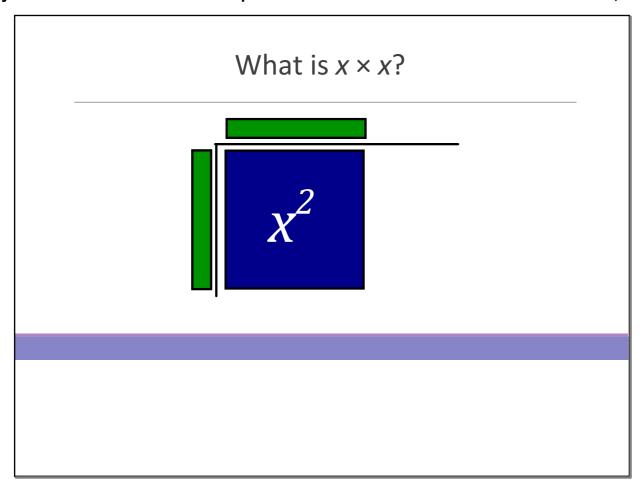


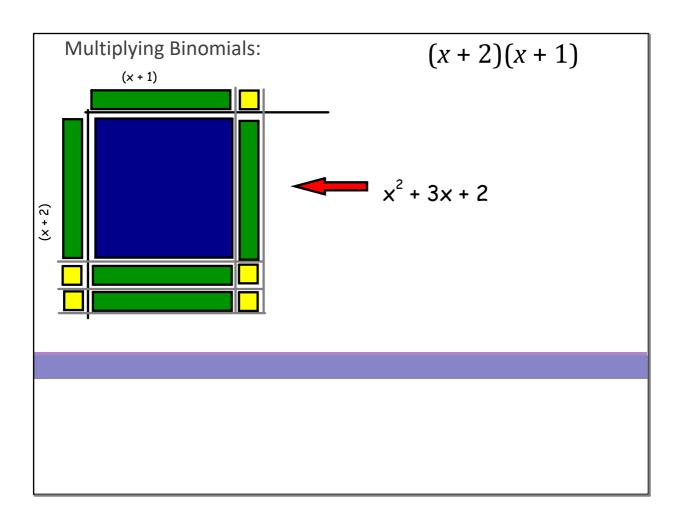
Algebra Tiles Extend the Understanding of Area to simplify algebraic expressions			
1		X	
What does this represent?			
		3 <i>x</i> + 6	

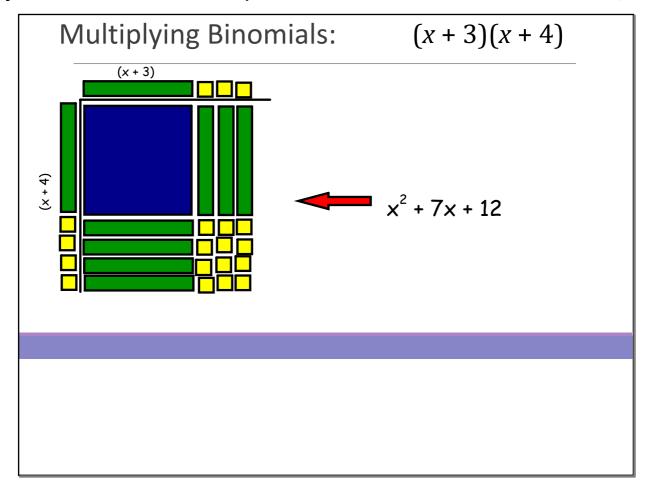


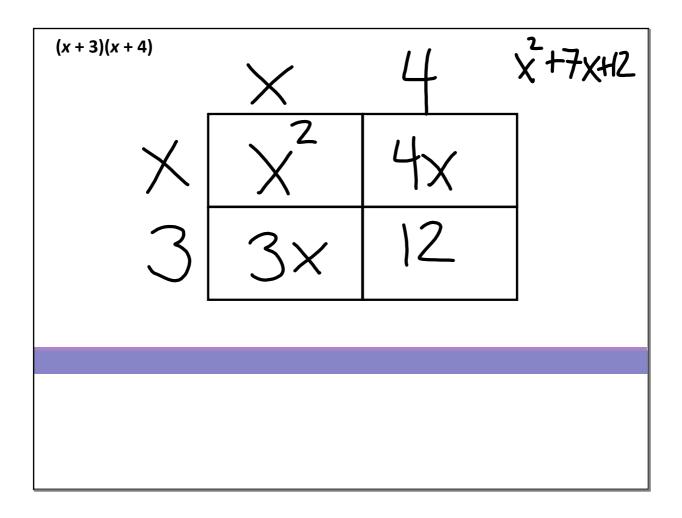


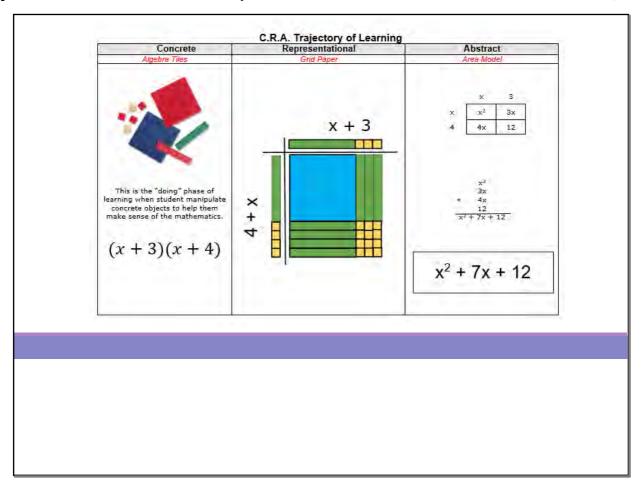


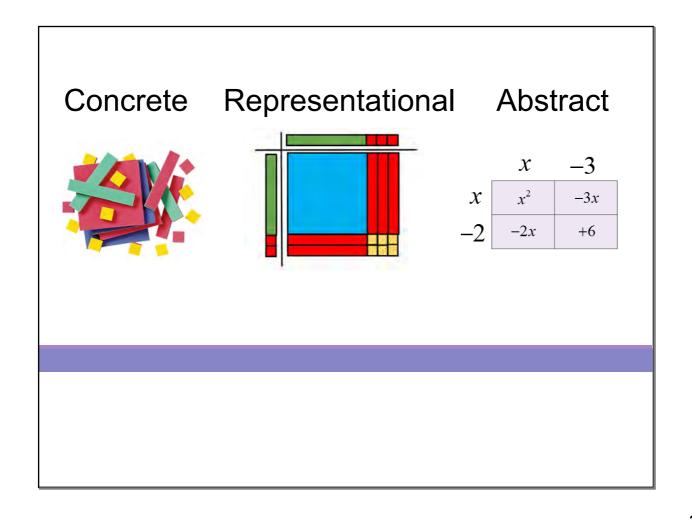












In this Presentation... Did you???

<u>develop</u> an understanding of the C-P-A (concrete - pictorial - abstract) approach

<u>learn</u> how we've built consistency in the vertical (K-12) curriculum

explore several different mathematical concepts

Thank you!

It was a pleasure presenting for you!



