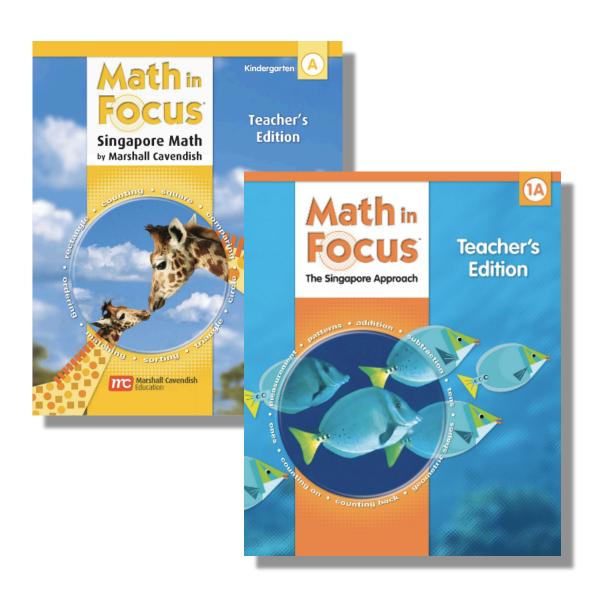
Math in Focus

An In-Depth Look at the Big Ideas at Grades K and 1



Beth Ardell eakardell@gmail.com

Teaching Number

Verbal "three"

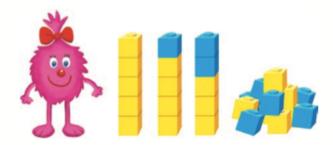
Symbolic or Abstract Quantity
"3"

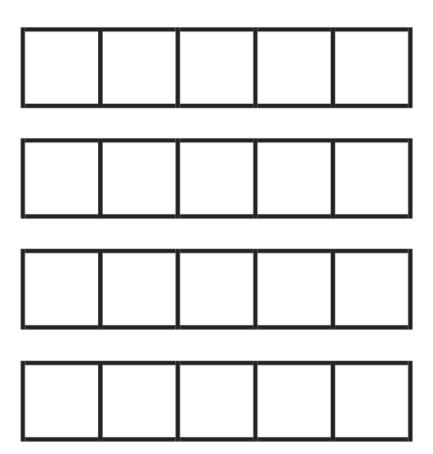
Composing and Decomposing Numbers Kindergarten

Big Ideas and Questions:	

Composing and Decomposing Numbers Kindergarten – Chapter 4

Composing 5:

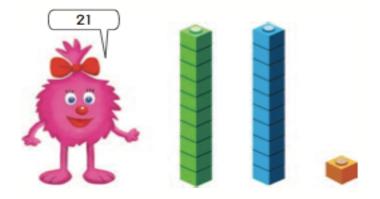




Big Ideas:			

Numbers to 20 - Kindergarten - Chapter 6 Numbers to 100 - Kindergarten - Chapter 8

Counting and Building Numbers:

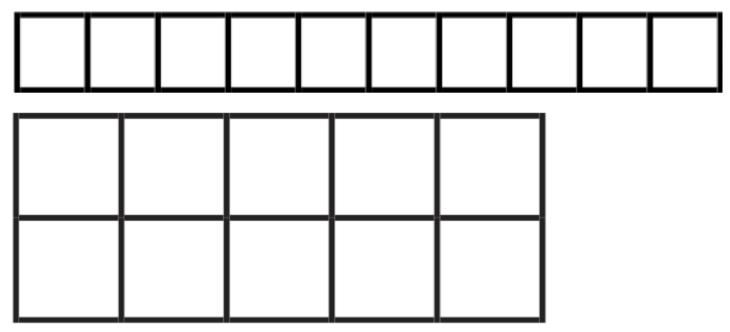


Big Ideas, Language and Questions:

Working with Ten Kindergarten – Chapters 12 and 14

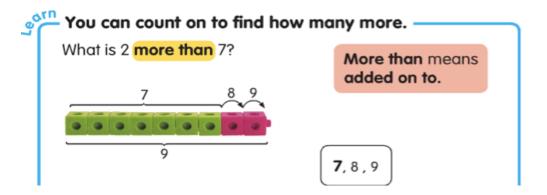
How many more to make to ten?





Big Ideas:	
	is more thanis less than is more than
	is less than 5 is and
	and makes 10.

Addition Facts to 10 Grade 1 – Chapter 3



Ways to Add: Add by Counting On Add using Number Bonds

Make Addition Stories

What are the parts?
What is the whole amount?

Rig Ideas.

Big idodo.	

Subtraction Facts to 10 Grade 1 – Chapter 4

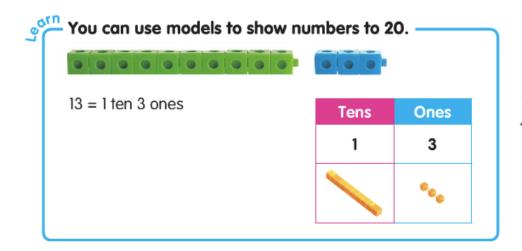


Ways to Subtract:
Subtract by Taking Away
Count On to Subtract
Subtract using Number Bonds
Make Subtraction Stories

What is the whole amount? What part was taken away?

Big Ideas:

Numbers to 20 Grade 1 – Chapter 7



10 and 3 make 13.

Ten and three make thirteen.

10 + 3 = 13

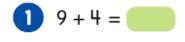
__ones = __tens__ones

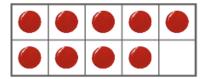
What does the ten tells us? What does the three tell us?

Big Ideas:

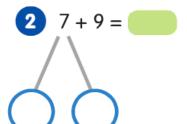
Addition and Subtraction Facts to 20 Grade 1 – Chapter 8

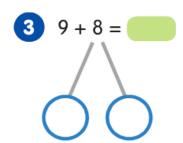
Add by making a 10:

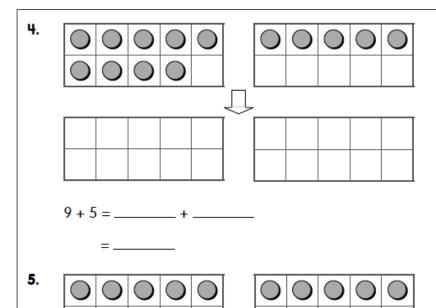




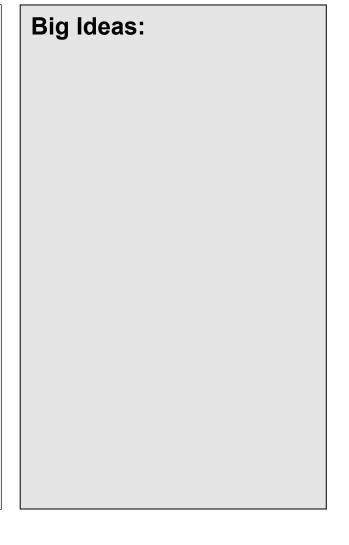






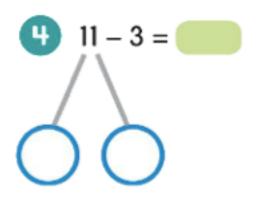


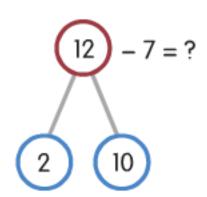
8 + 7 = _____ + ____

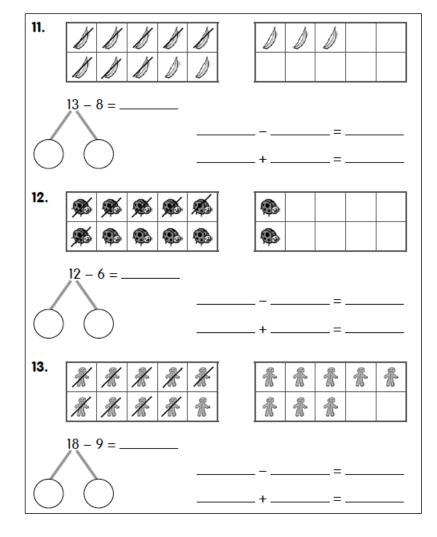


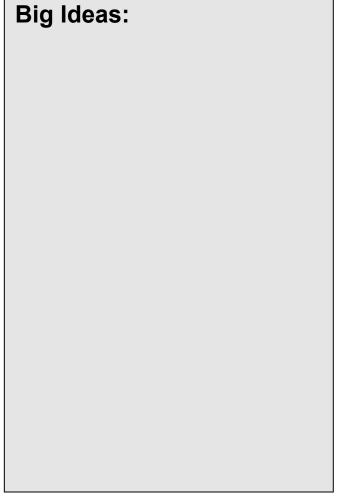
Addition and Subtraction Facts to 20 Grade 1 – Chapter 8

You can subtract by grouping into a 10 and ones:









Addition and Subtraction to 40 Grade 1 – Chapter 13

Tens	Ones

Tens	Ones

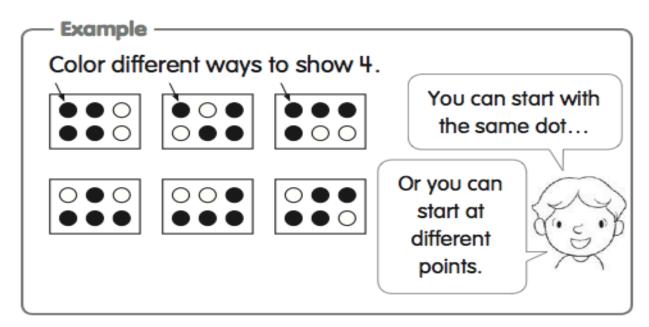
Big Ideas:	

Whole Number Addition and Subtraction with Regrouping Concrete – Pictorial – Abstract

Big Ideas:
Questions, language or pictures to help dig deeper into addition and subtraction with regrouping:



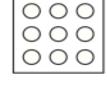
Color.

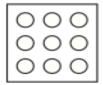


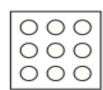


Color different ways to show 5.











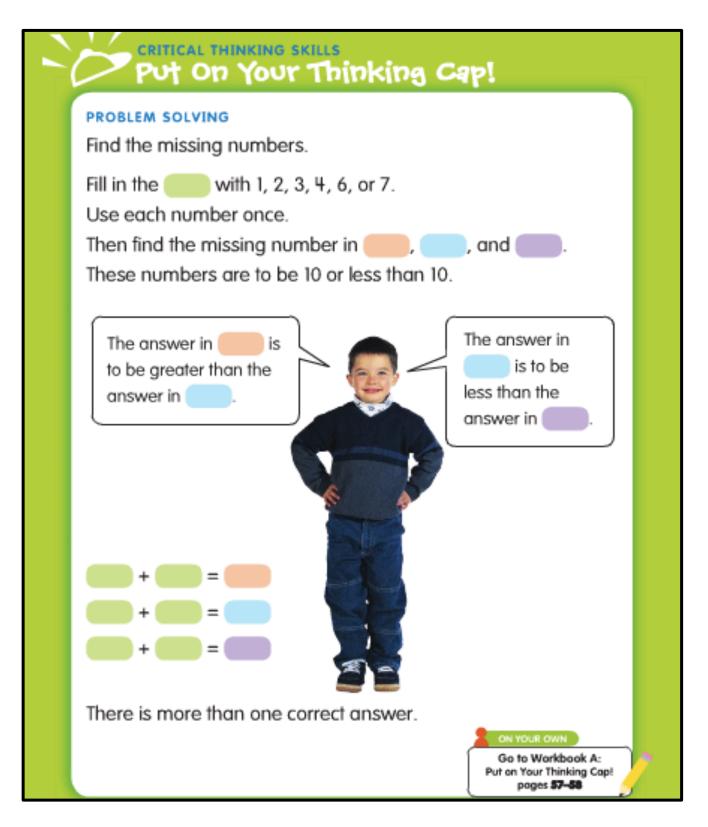


Enrichment KA

•Why might this be difficult for students to solve?

•What are ways to scaffold this problem?

•Discuss with your group.



- •Why might this be difficult to solve?
- •What are two ways students may go about solving it?
- •What are two ways to scaffold this problem without giving away the answer?
- Discuss with your group.

