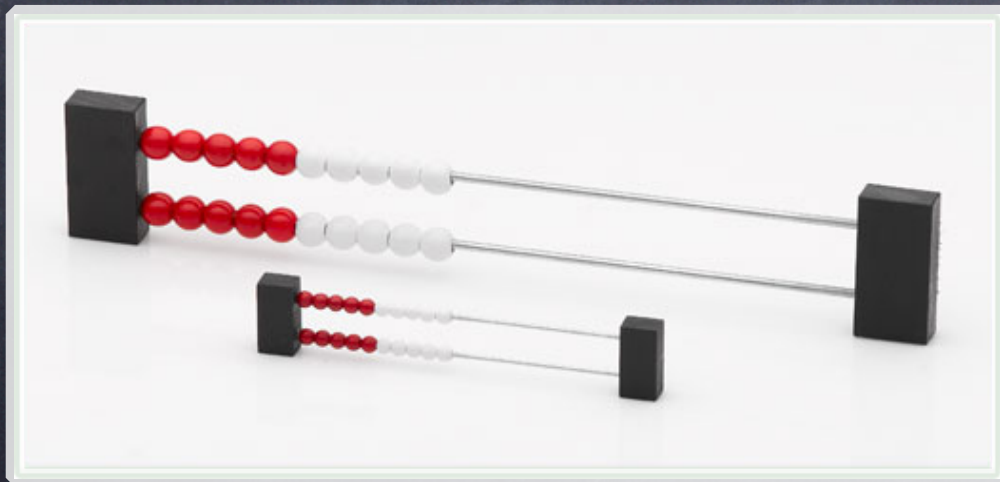


Building a Solid Foundation with Number Sense



To download the whole presentation go to
www.mathematicallyminded.com

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Essential Number Relationships

- Spatial Relationship - recognizing how many without counting by seeing a visual pattern
- One/Two More or Less - knowing which numbers are one/two more or less than any given number
- Benchmarks of 5 & 10 - how any given number relates to 5 and 10
- Part-Part-Whole - ability to conceptualize a number as being made up of two or more parts

Van De Walle, 2006

+	0	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10	11
2	2	3	4	5	6	7	8	9	10	11	12
3	3	4	5	6	7	8	9	10	11	12	13
4	4	5	6	7	8	9	10	11	12	13	14
5	5	6	7	8	9	10	11	12	13	14	15
6	6	7	8	9	10	11	12	13	14	15	16
7	7	8	9	10	11	12	13	14	15	16	17
8	8	9	10	11	12	13	14	15	16	17	18
9	9	10	11	12	13	14	15	16	17	18	19
10	10	11	12	13	14	15	16	17	18	19	20

How the MathRack Can Help

- Show me and Flash Forward
 - builds Spatial and Benchmarks of 5 & 10
- Just One More show a certain number on the MathRack and have the kids build theirs to show "one more" or "two less."
 - builds One/Two More or Less
- Show Me using two rows, "Show me ____."
 - builds Part-Part-Whole
- Peek-a-Boo cover the right side of the MathRack, push some beads over so kids can see them and ask how many beads are hiding.
 - builds Part-Part-Whole (is a Missing Part activity) and Benchmarks of 5 & 10

MathRack 100 Activities

- Show me - have students show a number on the MathRack. Challenge them to see who can show the number in the least amount of "pushes."
- Flash Forward - cover the MathRack and briefly flash numbers (from 1-100).
- Hidden Numbers - show a number on the MathRack, have them make that number using the place value cards.
- True/False Number Sentences - separate the Add-a-Row into two sets of 5 rows of 10. Show each side of the equation on a 5 rows of 10 and have them determine if the number sentence is true or false. $13 + 24 = 10 + 28$
- Make My Array - bring in objects that have a built-in array (egg cartons, muffin tin, etc). Have the kids model the array on the MathRack 100 and use that to determine the total.

Resources

- www.mathematicallyminded.com
- www.MathRack.com
- Teaching Student Centered Mathematics
by John Van de Walle
- Mastering the MathRack
by Christina Tondevold
- Contexts for Learning Mathematics

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