

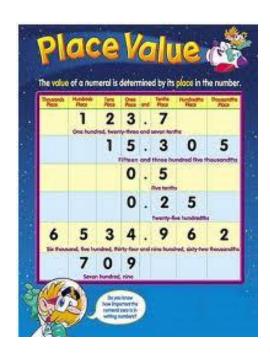


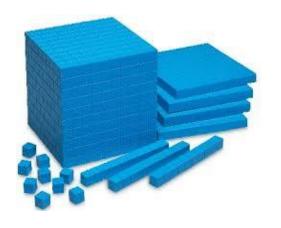
Conceptual Place Value

Lisa Riggs KCM Regional Consultant

Place Value ...

Н	Т	0



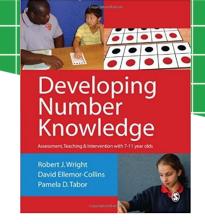




Circle the digit in the hundred's place.
What is place is the 7 in?



Conceptual Place Value



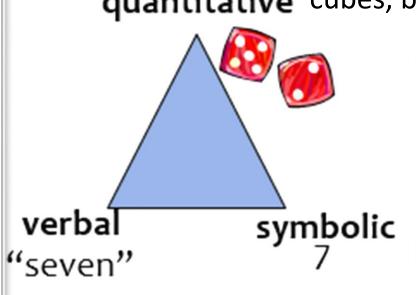
"Thus, being able to flexibly increment and decrement by ones and tens, and later also by hundreds, is critical knowledge for developing facile mental computation. We refer to this critical knowledge as *conceptual place value*. (CPV)."



Building CPV

Build the quantity with different materials:

Bundles and sticks, unifix quantitative cubes, bead racks ...



Count arounds

Number word before

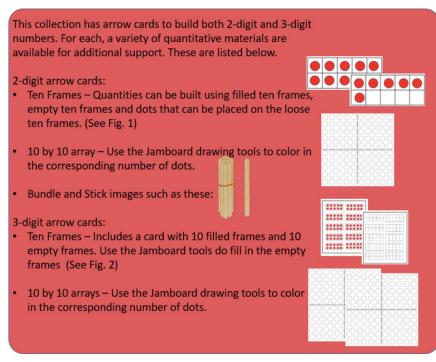
Number word after

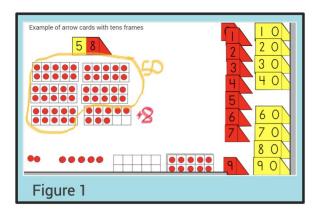
Numeral cards
Numeral rolls
Number lines
Number charts
Arrow cards

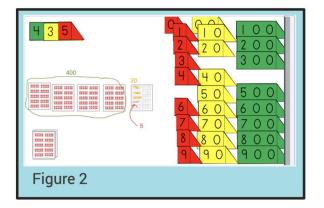


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Arrow Cards - up to 999









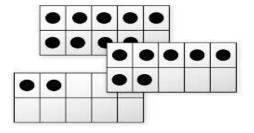


Building CPV

 Students need to be able to compose and decompose numbers with materials.











Instructional progression

- Incrementing/decrementing by tens, on decade
- Incrementing/decrementing off decade by tens
- Incrementing/decrementing by tens or ones
- Incrementing/decrementing by tens and ones







https://knp.kentuckyma thematics.org/#!/page_ knphome

Three in a Line - add & sub with materials

I can use base-ten materials to help me add and subtract one and two-digit numbers in the range of 1-100.

KNP # T 5525.1 - Three in a Line - add&sub with materials, Red

Fluency Standard: 2.NBT.5

Standard: 1.NBT.4,

Materials: Each pair of players should use a slide with game board, spinners and covers. Each student should have a base-ten materials such as bundles and sticks, <u>10 frame</u> <u>cards</u>, <u>100 bead rack</u> and/or a 100 bead string (links for virtual manipulatives are provided in case physical manipulatives are not available).







https://knp.kentuckyma thematics.org/#!/page_ knphome

Three in a Line - add & sub with materials

I can use base-ten materials to help me add and subtract one and two-digit numbers in the range 1-100.

KNP # T 5525.2 - Three in a Line - add & sub with materials, Blue

Fluency Standard: 2.NBT.5

Standard: 2.NBT.5, 1.NBT.4,

Materials: Each pair of players should use a slide with game board, spinners and covers. Each student should have a base-ten materials such as bundles and sticks, 10 frame cards, 100 bead rack and/or a 100 bead string (links for virtual manipulatives are provided in case physical manipulatives are not available).



KCM is here to support you!

Your host



Lisa Riggs

Regional Consultant Kentucky Center for Mathematics Iriggs2@murraystate.edu

