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Chapter 11

Developing Whole – Number, Place – Value Concepts

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* It is important to relate learning to the real world.
* Kids rely on unitary counts to understand quantities.
* Children need to realize that making groups of 10’s and leftover ones is a way of counting the same quantities.
* Seeing that both 10 ones = 1 ten; trade 10 ones for “a ten.”
* Need to go from Ones to 10’s from 10’s to 100 from 100’s to 1000.

Base- 10 language:

* Having students Base -10 concept play out with **manipulatives**: say the **oral name** standard (thirty-two) and base-10 (3 tens and 2): and write **written name**.

For older students:

* 10 dimes = 1 dollar place value concept for older students.
* Virtual web tools are available and work well! (a lot of grouping web tools out there)
* Don’t be afraid to give them a problem a little more difficult…as long as you allow students to have the opportunities to discuss and explain their invented strategies and approaches with others.

Some Activities to try:

* Give students a length (desk/hallway/shoe) and units to measure it by (toothpicks/pennies/blocks) determine how many units of ten it would take to fulfill the designated length. Have students guess/ estimate how many they think it would take. (gives a type of ownership) Compare estimation to actual units.
* Provide a jar full of an item (beans). Est. how many groups of tens. What is 10 groups of tens called? One Hundred! Record on board as 4 hundreds + 7 tens + 8 ones
* List multi numbers on the board. Ask questions like: Which is the closest? Which # is in between? About how far apart? May use Hundreds Board and Chart.
* Instructor says Base- 10 language number aloud. Student must use calc to enter correct number and raise their hand saying in standard language the number. (activity may be used as points toward bonus and/or reward)

Children will eventually start relating these concepts in their lives such as: # of kids in each class, # of school buses, # of mins devoted to math class a day; a wk, # of choc milk vs. white milk in cafeteria not only in school topics but @ their homes, on the news and concerning measurements.