Place Value, Counting and Comparison of Numbers to 1000

Students expand their skill with and understanding of unit by bundling ones, tens, and hundreds (up to a thousand) with straws or sticks. They solve simple problems that require an understanding of place value as a system based on repeated groupings by 10.

Grade Level Standards
2.NBT.1, 2.NBT.2, 2.NBT.3, 2.NBT.4

Student Report Card
Understands place value with numbers up to 1000.

Key Vocabulary

- **Standard Form**: e.g. 576 Expanded Form: e.g. 576 = 500 + 70 + 6
- **Word Form**: e.g. Five hundred seventy-six
- **Unit Form**: Stating the amount of hundreds, tens, and ones in each number, e.g., 11 is stated as 1 ten 1 one, 27 as 2 tens 7 ones, 100 as 1 hundred, and 576 as 5 hundreds, 7 tens, 6 ones
- **Base-Ten Numeral**: The idea that 1000 equals 10 hundreds, 100 equals 10 tens, and so on
- **Bundling:** Putting smaller units together to make a larger one, e.g. putting 10 tens together to make a hundred
- **Regrouping**: Renaming, (instead of "carrying" or "borrowing,") e.g., a group of 10 ones is "renamed" a ten when the ones are bundled and moved from the ones to the tens place

How you can help at home:

- Skip count when counting groups of nickels and dimes.
- Count in a pattern while doing a rhythmic or repeated task - stirring pancake batter, brushing hair, putting away groceries, walking.
- Roll two dice to make a two digit number. Subtract it from 99 or 100.
- Represent two digit numbers with popsicle sticks - make bundles of ten for the tens and use single sticks for the ones.
- Roll dice to make two or three digit numbers with a partner. See who can make the larger number.
- Find or roll numbers and tell which place value each digit represents.
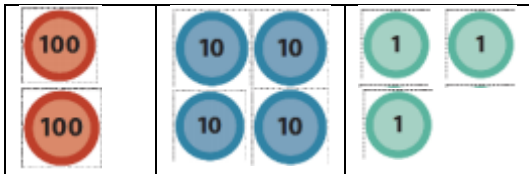
Models and Representations

Ways to show and understand the value of 243

Bundling

Bundling is also called grouping. This is a way to group numbers by putting the smaller units together to make a larger one. For instance, putting 10 ones together makes 1 ten. Putting 10 tens together makes 1 hundred. Bundled numbers can also be "unbundled." A group of 10 can be broken apart into its component 10 ones when needed for subtraction.
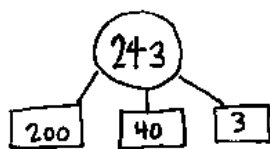
Place Value Disks

Number disks are manipulatives used to further develop place value understanding and help students transition from bundling sticks to making drawings. Like money, the value of the disk is determined by the value printed on it, not by its size.

Place Value Charts

Hundreds	Tens	Ones
2	4	3

The place value chart is a graphic organizer that students can use to see the coherence of place value and different units.

Number Bonds

2 hundreds
4 tens
3 ones

The number bond is a pictorial representation and shows that within a part-whole relationship, smaller numbers (the parts) make up larger numbers (the whole).