In Unit 12 the children will learn about place value through the use of money and ten-frames. They will explore number concepts, with a focus on the numbers 0 through 20. They will also work with number collections to reinforce their skills in counting by twos, fives, and tens.

**Understanding place value can lead to number sense and efficient strategies for computing with numbers.**

Place value is based on groups of ten.

Grouping is a way to count, measure and estimate.

Estimation is a way to get an approximate answer.

Operations create relationships between numbers.

Knowing the reasonableness of an answer comes from using good number sense and estimation strategies.

**Recommended Literature**

- *A Place for Zero* by Angeline Sparagna LoPresti
- *Bears on the Beach* by Niki Yektai
- *Counting is for the Birds* by Frank Mazzola, Jr.
- *Counting Wildflowers* by Bruce McMillan
- *Earth Day -- Hooray!* by Stuart J. Murphy
- *The Cheerios Counting Book* by Barbara Barbieri McGarth

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**Vocabulary**

The children will be introduced to these vocabulary words. Mastery is not expected at this time.

- Bracket
- Collection
- Estimation
- Horizontally
- Vertically