

The Big Math Ideas

Kindergarten: The big ideas in Kindergarten include

- **counting objects in a set;**
- **comparing sets or numerals;**
- **using numbers to represent quantities and solve problems;**
- **modeling simple joining and separating situations with sets of objects.**

Grade 1: The big ideas in Grade 1 include

- **understanding addition, subtraction, and strategies for addition and subtraction within 20;**
- **understanding whole number relationships and place value;**
- **understanding linear measurement.**

Grade 2: The big ideas in Grade 2 include

- **extending understanding of the base-ten system;**
- **building fluency with addition and subtraction;**
- **solving problems using understanding of place value and properties of addition and subtraction.**

Grade 3: The big ideas in Grade 3 include

- multiplication and division of whole numbers;
- arrays and area;
- building fractions from unit fractions.

Grade 4: The big ideas in Grade 4 include

- developing understanding with multi-digit multiplication and division;
- understanding fraction equivalence;
- adding and subtracting fractions with like denominators;
- multiplication of fractions and whole numbers.

Grade 5: The big ideas in Grade 5 include

- place value and operations with multi-digit whole numbers and decimals to hundredths;
- multiplication and division with fractions;
- understanding volume and how it relates to multiplication.

Grade 6: The big ideas in Grade 6 include

- Ratios and percents
- Algebraic expressions and functions