## What is new to Third Grade:

Understand a fraction as a number on the number line. (3.NF.2)

Compare fractions with the same numerator or same denominator. (3.NF.3)
Express whole numbers as fractions. (3.NF.3)
Multiply one-digit whole numbers by multiples of 10 . (3.NBT.3)

Tell and write time to the nearest minute. (3.MD.1) Measure lengths using rulers marked with halves and fourths of an inch. (3.MD.4)
Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas. (3.MD.7)

## What is no longer taught in Third Grade:

Standard Algorithm for addition and subtraction
Multiplying and Dividing multi-digit numbers (Only within 100)
Rounding to 10,000 (Rounding only to 10 and 100)

## Decimals

Adding and Subtracting Fractions
Simplifying Fractions
Unit Conversion
Angle Work
Identification of Triangles
Volume
Probability

## Mathematical Practice Standards:

## Third Graders will:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

## Critical Areas of Focus

In Grade 3, instructional time should focus on four critical areas: (1) developing understanding of multiplication and division and strategies for multiplication and division within 100; (2) developing understanding of fractions, especially unit fractions (fractions with numerator 1); (3) developing understanding of the structure of rectangular arrays and of area; and (4) describing and analyzing two-dimensional shapes.

1. Students develop an understanding of the meanings of multiplication and division of whole numbers through activities and problems involving equal-sized groups, arrays, and area models; multiplication is finding an unknown product, and division is finding an unknown factor in these situations. For equal-sized group situations, division can require finding the unknown number of groups or the unknown group size. Students use properties of operations to calculate products of whole numbers, using increasingly sophisticated strategies based on these properties to solve multiplication and division problems involving single-digit factors. By comparing a variety of solution strategies, students learn the relationship between multiplication and division.
2. Students develop an understanding of fractions, beginning with unit fractions. Students view fractions in general as being built out of unit fractions, and they use fractions along with visual fraction models to represent parts of a whole. Students understand that the size of a fractional part is relative to the size of the whole. For example, $1 / 2$ of the paint in a small bucket could be less paint than $1 / 3$ of the paint in a larger bucket, but $1 / 3$ of a ribbon is longer than $1 / 5$ of the same ribbon because when the ribbon is divided into 3 equal parts, the parts are longer than when the ribbon is divided into 5 equal parts. Students are able to use fractions to represent numbers equal to, less than, and greater than one. They solve problems that involve comparing fractions by using visual fraction models and strategies based on noticing equal numerators or denominators.
3. Students recognize area as an attribute of two-dimensional regions. They measure the area of a shape by finding the total number of same-size units of area required to cover the shape without gaps or overlaps, a square with sides of unit length being the standard unit for measuring area. Students understand that rectangular arrays can be decomposed into identical rows or into identical columns. By decomposing rectangles into rectangular arrays of squares, students connect area to multiplication, and justify using multiplication to determine the area of a rectangle.
4. Students describe, analyze, and compare properties of two-dimensional shapes. They compare and classify shapes by their sides and angles, and connect these with definitions of shapes. Students also relate their fraction work to geometry by expressing the area of part of a shape as a unit fraction of the whole.


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