| Third Grade <br> Standards for Mathematical Practices |  |  |  |  |  |  |  |  |  |
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| Standards | Date Taught | Date Retaught | Date Reviewed | Date Assessed | Date <br> Re-Assessed |  |  |  |  |
| Operations and Algebraic Thinking |  |  |  |  |  |  |  |  |  |
| Represent and solve problems involving multiplication and division. |  |  |  |  |  |  |  |  |  |
| NC.3.OA. 1 For products of whole numbers with two factors up to and including 10: <br> - Interpret the factors as representing the number of equal groups and the number of objects in each group. <br> - Illustrate and explain strategies including arrays, repeated addition, decomposing a factor, and applying the commutative and associative properties |  |  |  |  |  | 1 | 2 | 3 | 4 |
| NC.3.OA. 2 For <br> whole-number quotients of whole numbers with a one-digit divisor and a one-digit quotient: <br> - Interpret the divisor and quotient in a division equation as representing the number of equal groups and the number of objects in each group. <br> - Illustrate and explain strategies including arrays, repeated addition or subtraction, and decomposing a factor. |  |  |  |  |  | 1 | 2 | 3 | 4 |
| NC.3.OA. 3 Represent, interpret, and solve one-step problems involving multiplication and division. <br> - Solve multiplication word problems with factors up to and including 10. <br> Represent the problem using arrays, pictures, and/or equations with a symbol for the unknown number to represent the problem. <br> - Solve division word |  |  |  |  |  | 1 | 2 | 3 | 4 |


| problems with a divisor and quotient up to and including 10. Represent the problem using arrays, pictures, repeated subtraction and/or equations with a symbol for the unknown number to represent the problem. |  |  |  |  |  |  |  |  |
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| Standards | Date Taught | Date Retaught | Date Reviewed | Date Assessed | Date Re-Assessed | Shaded the Sta <br> Taught |  |  |
| Understand properties of multiplication and the relationship between multiplication and division. |  |  |  |  |  |  |  |  |
| NC.3.OA. 6 Solve an unknown-factor problem, by using division strategies and/or changing it to a multiplication problem. |  |  |  |  |  | 12 | 3 | 4 |
| Multiply and divide within 100. |  |  |  |  |  |  |  |  |
| NC.3.OA. 7 Demonstrate fluency with multiplication and division with factors, quotients and divisors up to and including 10. <br> - Know from memory all products with factors up to and including 10. <br> - Illustrate and explain using the relationship between multiplication and division. <br> - Determine the unknown whole number in a multiplication or division equation relating three whole numbers. |  |  |  |  |  | 12 | 3 | 4 |
| Solve two-step problems. |  |  |  |  |  |  |  |  |
| NC.3.OA. 8 Solve two-step word problems using addition, subtraction, and multiplication, representing problems using equations with a symbol for the unknown number. |  |  |  |  |  | $1{ }^{1}$ | 3 | 4 |
| Explore patterns of numbers. |  |  |  |  |  |  |  |  |
| NC.3.OA. 9 Interpret patterns of multiplication on a hundreds board and/or multiplication table. |  |  |  |  |  | 1 2 | 3 | 4 |


| Standards | Date <br> Taught | Date <br> Retaught | Date <br> Reviewed | Date <br> Assessed | Date <br> Re-Assessed | Shaded Nine Weeks <br> the Standards are <br> Taught or Reviewed |
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## Understand place value.

NC.3.NBT. 2 Add and subtract whole numbers up to and including 1,000.

- Use estimation strategies to assess reasonableness of answers.
- Model and explain how the relationship between addition and subtraction can be applied to solve addition and subtraction problems.
- Use expanded form to decompose numbers and then find sums and differences.


## Number and Operations in Base Ten

Generalize place value understanding for multi-digit numbers.

| NC.3.NBT. 3 Use concrete <br> and pictorial models, <br> based on place value and <br> the propertes of <br> operations, to find the <br> propuct of o one-digit <br> whole number <br> by a multiple of 10 in the <br> range 10-90. |  |  |  |  |  |  |  |  |
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## Number and Operations- Fractions



| number of equal parts of the unit fraction. <br> - Using a number line, explain that the numerator of a fraction represents the number of lengths of the unit fraction from 0 . |  |  |  |  |  |  |  |  |  |
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| Standards | Date Taught | Date Retaught | Date Reviewed | Date Assessed | Date Re-Assessed |  |  |  |  |
| NC.3.NF. 3 Represent equivalent fractions with area and length models by: <br> - Composing and decomposing fractions into equivalent fractions using related fractions: halves, fourths and eighths; thirds and sixths. <br> - Explaining that a fraction with the same numerator and denominator equals one whole. <br> - Expressing whole numbers as fractions, and recognize fractions that are equivalent to whole numbers |  |  |  |  |  | 1 | 2 | 3 | 4 |
| NC.3.NF. 4 Compare two fractions with the same numerator or the same denominator by reasoning about their size, using area and length models, and using the $>,<$, and = symbols. Recognize that comparisons are valid only when the two fractions refer to the same whole with denominators: halves, fourths and eighths; thirds and sixths. |  |  |  |  |  | 1 | 2 | 3 | 4 |

## Measurement and Data

Solve problems involving measurement.
NC.3.MD. 1 Tell and write time to the nearest minute. Solve word problems involving addition and subtraction of time intervals within the same hour.



Represent and interpret data.


## Understand the concept of area.

| NC.3.MD.5 Find the area <br> of a rectangle with <br> whole-number side lengths <br> by tiling without gaps or <br> overlaps and counting unit <br> squares. |  |  |  |  |  |  |  |  |
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## Understand the concept of perimeter.

NC.3.MD. 8 Solve problems involving perimeters of polygons, including finding the perimeter given the side lengths, and finding an unknown side length.



| quadrilaterals including <br> rhombuses, rectangles, <br> squares, parallelograms, <br> and trapezoids. |  |  |  |  |  |
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