

| Standards | Date <br> Taught | Date <br> Retaught | Date <br> Reviewed | Date <br> Assessed <br> Re-Assessed | Shaded Nine Weeks <br> the Standards are <br> Taught or Reviewed |  |  |
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| Generate and analyze patterns. |  |  |  |  |  |  |  |
| NC.4.OA.5 Generate and <br> analyze a number or <br> shape pattern that follows <br> a given rule. |  |  |  |  |  |  |  |

Generalize place value understanding for multi-digit whole numbers.


Use place value understanding and properties of operations to perform multi-digit arithmetic.



## Number and Operations- Fractions

Extend understanding of fractions.

| NC.4.NF. 1 Explain why a fraction is equivalent to another fraction by using area and length fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. |  |  |  |  |  |  | 1 | 2 | $\begin{array}{\|l\|} \hline 3 \\ \hline \text { Ch. } \\ \hline 6 \\ \hline \end{array}$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NC.4.NF. 2 Compare two fractions with different numerators and different denominators, using the denominators $2,3,4,5,6$, $8,10,12$, and 100. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or <, and justify the conclusions by: <br> - Reasoning about their size and using area and length models. <br> - Using benchmark fractions $0,1 / 2$, and a whole. <br> - Comparing common numerator or common denominators |  |  |  |  |  |  | 1 | 2 | $\begin{array}{\|l\|} \hline 3 \\ \hline \begin{array}{l} \text { Ch. } \\ 6 \end{array} \\ \hline \end{array}$ | 4 |



| fraction by a whole number |  |  |  |  |  |  |  |  |  |
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| Understand decimal notation for fractions, and compare decimal fractions. |  |  |  |  |  |  |  |  |  |
| NC.4.NF. 6 Use decimal notation to represent fractions. <br> - Express, model and explain the equivalence between fractions with denominators of 10 and 100. <br> - Use equivalent fractions to add two fractions with denominators of 10 or 100. <br> - Represent tenths and hundredths with models, making connections between fractions and decimals.1 2 3 4 <br>    Ch. <br> 9 |  |  |  |  |  |  |  |  |  |
| NC.4.NF. 7 Compare two decimals to hundredths by reasoning about their size using area and length models, and recording the results of comparisons with the symbols >, $=$, or <. Recognize that comparisons are valid only when the two decimals refer to the same whole.1 2 3 4 <br>    Ch. <br> 9 |  |  |  |  |  |  |  |  |  |

Measurement and Data

Solve problems involving measurement.
NC.4.MD. 1 Know relative sizes of measurement units. Solve problems involving metric measurement.

- Measure to solve problems involving metric units: centimeter, meter, gram, kilogram, Liter, milliliter.
- Add, subtract, multiply, and divide to solve one-step word problems involving whole-number measurements of length, mass, and

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| capacity that are given in metric units. |  |  |  |  |  |  |  |  |  |
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| NC.4.MD. 2 Use <br> multiplicative reasoning to convert metric measurements from a larger unit to a smaller unit using place value understanding, twocolumn tables, and length models. |  |  |  |  |  | 1 | 2 | 3 | $\begin{array}{\|l\|} \hline 4 \\ \hline \mathrm{Ch} . \\ 99 \\ \hline \mathrm{Ch} . \\ 12 \\ \hline \end{array}$ |
| NC.4.MD. 8 Solve word problems involving addition and subtraction of time intervals that cross the hour. |  |  |  |  |  | 1 | 2 | 3 | $\begin{aligned} & 4 \\ & \hline \mathrm{Ch} . \\ & 12 \\ & \hline \end{aligned}$ |

Solve problems involving area and perimeter.


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| Understand concepts of angle and measure angles. |  |  |  |  |  |  |  |  |
| NC.4.MD. 6 Develop an understanding of angles and angle measurement. <br> - Understand angles as geometric shapes that are formed wherever two rays share a common endpoint, and are measured in degrees. <br> - Measure and sketch angles in whole-number degrees using a protractor. <br> - Solve addition and subtraction problems to find unknown angles on a diagram in real-world and mathematical problems. |  |  |  |  |  | $\begin{array}{l\|l} 1 & 2 \\ \hline \end{array}$ | 3 | $\begin{aligned} & 4 \\ & \hline \mathrm{Ch} . \\ & 11 \\ & \hline \end{aligned}$ |



