



GRADE  
3

Bridges & Number Corner Third Edition >>

# CORRELATIONS

>> North Carolina Standard Course  
of Study — Mathematics



### 3 SMP — Standards for Mathematics Practice

Standard	Descriptor	Citations
Standards for Mathematics Practice		
SMP.1	Make sense of problems and persevere in solving them.	<p><b>Bridges in Mathematics</b></p> Unit 2: M1 S1; M1 S2 Unit 3: M1 S2; M3 S3 Unit 4: M2 S3 Unit 5: M1 S4; M2 S1 Unit 6: M3 S1 Unit 7: M4 S3 Unit 8: M1 S3; M4 S1
		<p><b>Number Corner</b></p> September: Solving Problems October: Solving Problems November: Solving Problems February: Calendar Collector March: Solving Problems April: Calendar Collector, Solving Problems May: Solving Problems
SMP.2	Reason abstractly and quantitatively.	<p><b>Bridges in Mathematics</b></p> Unit 1: M2 S1; M4 S3; M4 S5 Unit 2: M2 S5 Unit 3: M1 S1 Unit 4: M1 S2 Unit 5: M4 S4 Unit 7: M4 S1 Unit 8: M3 S6; M4 S1; M3 S6
		<p><b>Number Corner</b></p> September: Computational Fluency November: Solving Problems January: Solving Problems April: Calendar Grid May: Solving Problems
SMP.3	Construct viable arguments and critique the reasoning of others.	<p><b>Bridges in Mathematics</b></p> Unit 1: M2 S4; M3 S3; M4 S2 Unit 2: M1 S1 Unit 3: M1 S6; M4 S2 Unit 4: M3 S3 Unit 5: M2 S4 Unit 6: M4 S3 Unit 8: M4 S1
		<p><b>Number Corner</b></p> October: Solving Problems November: Computational Fluency December: Calendar Grid January: Solving Problems February: Solving Problems March: Solving Problems May: Calendar Collector, Number Line
SMP.4	Model with mathematics.	<p><b>Bridges in Mathematics</b></p> Unit 1: M1 S1; M1 S2; M4 S5 Unit 2: M2 S2 Unit 4: M3 S4; M4 S3 Unit 5: M1 S3 Unit 6: M3 S2 Unit 7: M4 S2 Unit 8: M3 S3
		<p><b>Number Corner</b></p> May: Calendar Grid

Standard	Descriptor	Citations
Standards for Mathematics Practice		
SMP.5	Use appropriate tools strategically.	<p><b>Bridges in Mathematics</b>            Unit 1: M2 S5; M3 S1            Unit 3: M1 S2; M2 S4            Unit 4: M2 S4            Unit 6: M1 S5            Unit 7: M2 S2            Unit 8: M1 S3; M4 S2</p> <p><b>Number Corner</b>            December: Calendar Collector            January: Calendar Collector            February: Calendar Collector            April: Calendar Collector, Number Line</p>
SMP.6	Attend to precision.	<p><b>Bridges in Mathematics</b>            Unit 1: M3 S1            Unit 2: M4 S2            Unit 3: M3 S4            Unit 4: M1 S6; M4 S1            Unit 5: M3 S3; M4 S2            Unit 6: M1 S4            Unit 7: M2 S4; M4 S4            Unit 8: M1 S1; M1 S2; M4 S4</p> <p><b>Number Corner</b>            November: Calendar Collector, Computational Fluency            December: Computational Fluency            January: Number Line            February: Number Line            March: Number Line            May: Number Line</p>
SMP.7	Look for and make use of structure.	<p><b>Bridges in Mathematics</b>            Unit 1: M1 S1; M1 S2; M2 S1; M2 S3; M3 S5            Unit 2: M2 S2; M3 S4            Unit 3: M2 S2            Unit 4: M1 S2            Unit 8: M1 S3; M3 S6; M4 S4</p> <p><b>Number Corner</b>            September: Calendar Grid, Number Line            October: Calendar Grid, Number Line            November: Calendar Grid, Number Line            December: Calendar Grid, Number Line            January: Calendar Grid, Number Line            February: Calendar Grid, Number Line            March: Calendar Grid, Number Line            April: Solving Problems            May: Computational Fluency</p>
SMP.8	Look for and express regularity in repeated reasoning.	<p><b>Bridges in Mathematics</b>            Unit 1: M1 S4            Unit 2: M2 S4; M3 S2            Unit 3: M4 S1            Unit 4: M3 S2            Unit 5: M1 S2            Unit 6: M3 S3            Unit 7: M3 S4            Unit 8: M1 S1; M2 S5</p> <p><b>Number Corner</b>            November: Number Line            December: Solving Problems            January: Computational Fluency            February: Computational Fluency            March: Calendar Grid, Calendar Collector, Computational Fluency            April: Computational Fluency            May: Calendar Grid, Calendar Collector</p>

### 3 OA — Operations and Algebraic Thinking

Standard	Descriptor	Citations
Represent and solve problems involving multiplication and division.		
For products of whole numbers with two factors up to and including 10:		
<b>NC.3.OA.1</b>	<ul style="list-style-type: none"> <li>Interpret the factors as representing the number of equal groups and the number of objects in each group.</li> <li>Illustrate and explain strategies including arrays, repeated addition, decomposing a factor, and applying the commutative and associative properties.</li> </ul>	<p><b>Bridges in Mathematics</b>            Unit 2: M1 S2; M1 S3; M1 S5; M1 S6; M2 S1; M2 S2; M2 S3; M2 S4;            M2 S5; M3 S1; M3 S2; M3 S3; M3 S4; M4 S3            Unit 5: M1 S1; M1 S2; M1 S6            Unit 6: M3 S5            Unit 7: M1 S2</p> <p><b>Number Corner</b>            September: Calendar Grid            October: Computational Fluency            November: Computational Fluency, Solving Problems            December: Solving Problems            February: Computational Fluency            March: Computational Fluency            April: Computational Fluency, Solving Problems            May: Calendar Collector, Computational Fluency</p>
For whole-number quotients of whole numbers with a one-digit divisor and a one-digit quotient:		
<b>NC.3.OA.2</b>	<ul style="list-style-type: none"> <li>Interpret the divisor and quotient in a division equation as representing the number of equal groups and the number of objects in each group.</li> <li>Illustrate and explain strategies including arrays, repeated addition or subtraction, and decomposing a factor.</li> </ul>	<p><b>Bridges in Mathematics</b>            Unit 5: M1 S2; M1 S3; M1 S4; M1 S6; M2 S1; M2 S2; M3 S1; M3 S2            Unit 6: M3 S5</p> <p><b>Number Corner</b>            May: Solving Problems</p>

Standard	Descriptor	Citations
Represent and solve problems involving multiplication and division.		
NC.3.OA.3	<p data-bbox="321 224 1388 253">Represent, interpret, and solve one-step problems involving multiplication and division.</p> <ul data-bbox="321 272 600 1084" style="list-style-type: none"> <li data-bbox="321 272 600 643">• Solve multiplication word problems with factors up to and including 10. Represent the problem using arrays, pictures, and/or equations with a symbol for the unknown number to represent the problem.</li> <li data-bbox="321 662 600 1084">• Solve division word 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.</li> </ul>	<p data-bbox="621 272 919 302"><b>Bridges in Mathematics</b></p> <p data-bbox="621 305 1283 399">Unit 2: M1 S1; M1 S2; M1 S3; M1 S4; M1 S5; M1 S6; M3 S1; M3 S2 Unit 5: M1 S3; M1 S4; M2 S1; M2 S2 Unit 7: M2 S1; M2 S2</p> <p data-bbox="1314 272 1514 302"><b>Number Corner</b></p> <p data-bbox="1314 305 1671 399">September: Calendar Grid November: Solving Problems January: Solving Problems</p>
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.	<p data-bbox="621 1182 919 1211"><b>Bridges in Mathematics</b></p> <p data-bbox="621 1214 1178 1243">Unit 5: M1 S4; M1 S6; M2 S1; M2 S2; M2 S3; M3 S4</p> <p data-bbox="1314 1182 1514 1211"><b>Number Corner</b></p> <p data-bbox="1314 1214 1892 1308">February: Computational Fluency April: Computational Fluency, Solving Problems May: Computational Fluency</p>

Standard	Descriptor	Citations	
Multiply and divide within 100.			
NC.3.OA.7	<p>Demonstrate fluency with multiplication and division with factors, quotients and divisors up to and including 10.</p> <ul style="list-style-type: none"> <li>Know from memory all products with factors up to and including 10.</li> <li>Illustrate and explain using the relationship between multiplication and division.</li> <li>Determine the unknown whole number in a multiplication or division equation relating three whole numbers.</li> </ul>	<p><b>Bridges in Mathematics</b></p> <p>Unit 2: M2 S3; M2 S4; M3 S3; M3 S4</p> <p>Unit 5: M1 S6; M2 S1; M2 S2; M2 S3; M2 S4; M3 S2; M3 S3; M3 S4</p> <p>Unit 7: M1 S3; M1 S4; M2 S1; M2 S2; M2 S3; M2 S4; M2 S5</p>	<p><b>Number Corner</b></p> <p>November: Solving Problems</p> <p>February: Computational Fluency</p> <p>March: Computational Fluency</p> <p>April: Computational Fluency, Solving Problems</p> <p>May: Calendar Collector, Computational Fluency</p>
	Solve two-step problems.		
NC.3.OA.8	<p>Solve two-step word problems using addition, subtraction, and multiplication, representing problems using equations with a symbol for the unknown number.</p>	<p><b>Bridges in Mathematics</b></p> <p>Unit 1: M4 S1; M4 S2</p> <p>Unit 2: M4 S2</p> <p>Unit 3: M3 S4</p> <p>Unit 4: M2 S2; M2 S3</p> <p>Unit 7: M1 S1; M1 S2</p> <p>Unit 8: M4 S2</p>	<p><b>Number Corner</b></p> <p>October: Number Line</p> <p>November: Number Line</p> <p>January: Solving Problems</p>
Explore patterns of numbers.			
NC.3.OA.9	<p>Interpret patterns of multiplication on a hundreds board and/or multiplication table.</p>	<p><b>Bridges in Mathematics</b></p> <p>Unit 1: M1 S3; M1 S4; M1 S5; M2 S2; M3 S3; M3 S4</p> <p>Unit 2: M2 S2; M3 S3; M3 S4</p> <p>Unit 7: M1 S5</p> <p>Unit 8: M2 S1</p>	<p><b>Number Corner</b></p> <p>September: Number Line</p> <p>December: Computational Fluency</p> <p>January: Computational Fluency</p> <p>February: Computational Fluency</p> <p>March: Computational Fluency</p> <p>April: Computational Fluency</p> <p>May: Calendar Collector</p>

### 3 NBT — Number and Operations in Base Ten

Standard	Descriptor	Citations
Use place value to add and subtract.		
Add and subtract whole numbers up to and including 1,000.		
<b>NC.3.NBT.2</b>	<ul style="list-style-type: none"> <li>Use estimation strategies to assess reasonableness of answers.</li> <li>Model and explain how the relationship between addition and subtraction can be applied to solve addition and subtraction problems.</li> <li>Use expanded form to decompose numbers and then find sums and differences.</li> </ul>	<p><b>Bridges in Mathematics</b>            Unit 1: M2 S3; M2 S5; M4 S4            Unit 3: M1 S2; M1 S3; M1 S4; M1 S5; M1 S6; M2 S3; M2 S4; M3 S3;            M3 S4; M4 S1; M4 S2; M4 S3; M4 S4            Unit 4: M2 S1; M2 S2</p> <p><b>Number Corner</b>            November: Number Line, Solving Problems            December: Number Line            January: Solving Problems</p>
Generalize place value understanding for multidigit numbers.		
<b>NC.3.NBT.3</b>	Use concrete and pictorial models, based on place value and the properties of operations, to find the product of a one-digit whole number by a multiple of 10 in the range 10–90.	<p><b>Bridges in Mathematics</b>            Unit 7: M1 S1; M1 S5; M2 S1; M2 S2; M2 S3; M2 S4; M2 S5</p>

### 3 NF — Number and Operations: Fractions

Standard	Descriptor	Citations	
Understand fractions as numbers.			
NC.3.NF.1	Interpret unit fractions with denominators of 2, 3, 4, 6, and 8 as quantities formed when a whole is partitioned into equal parts;		
	<ul style="list-style-type: none"> <li>Explain that a unit fraction is one of those parts.</li> <li>Represent and identify unit fractions using area and length models.</li> </ul>	<b>Bridges in Mathematics</b> Unit 4: M3 S1; M3 S2; M3 S3; M3 S4; M4 S2 Unit 6: M4 S2; M4 S3 Unit 7: M3 S1; M3 S2; M3 S3; M3 S4; M3 S5; M3 S6; M4 S1 Unit 8: M2 S1	<b>Number Corner</b> October: Calendar Collector November: Calendar Collector December: Calendar Grid February: Calendar Collector April: Calendar Collector
Interpret fractions with denominators of 2, 3, 4, 6, and 8 using area and length models.			
NC.3.NF.2	Using an area model, explain that the numerator of a fraction represents the number of equal parts of the unit fraction.		
	<ul style="list-style-type: none"> <li>Using a number line, explain that the numerator of a fraction represents the number of lengths of the unit fraction from 0.</li> </ul>	<b>Bridges in Mathematics</b> Unit 4: M3 S1; M3 S2; M3 S3 Unit 6: M4 S1; M4 S2; M4 S3 Unit 7: M3 S1; M4 S2; M4 S3 Unit 8: M2 S1	<b>Number Corner</b> November: Calendar Collector December: Calendar Grid January: Number Line February: Number Line March: Number Line April: Number Line May: Calendar Grid



Standard	Descriptor	Citations	
Understand fractions as numbers.			
Represent equivalent fractions with area and length models by:			
<b>NC.3.NF.3</b>	<ul style="list-style-type: none"> <li>Composing and decomposing fractions into equivalent fractions using related fractions: halves, fourths and eighths; thirds and sixths.</li> <li>Explaining that a fraction with the same numerator and denominator equals one whole.</li> <li>Expressing whole numbers as fractions and recognize fractions that are equivalent to whole numbers.</li> </ul>	<b>Bridges in Mathematics</b> Unit 4: M3 S2; M3 S3 Unit 6: M4 S2; M4 S3 Unit 7: M3 S1; M3 S2; M3 S3; M3 S4; M3 S5; M3 S6; M4 S1; M4 S2; M4 S3	<b>Number Corner</b> October: Calendar Collector November: Calendar Collector December: Calendar Grid January: Calendar Grid April: Calendar Grid, Calendar Collector May: Calendar Grid, Number Line
<b>NC.3.NF.4</b>	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.	<b>Bridges in Mathematics</b> Unit 4: M3 S2; M3 S5 Unit 6: M4 S2 Unit 7: M3 S1; M4 S2	<b>Number Corner</b> January: Calendar Grid February: Number Line March: Number Line

### 3 MD — Measurement and Data

Standard	Descriptor	Citations
Solve problems involving measurement.		
NC.3.MD.1	<p>Tell and write time to the nearest minute. Solve word problems involving addition and subtraction of time intervals within the same hour.</p>	<p><b>Bridges in Mathematics</b>            Unit 4: M2 S4; M2 S5            Unit 8: M2 S1; M3 S1; M3 S2; M3 S5; M4 S2</p> <p><b>Number Corner</b>            January: Calendar Collector            March: Calendar Grid</p>
Solve problems involving customary measurement.		
<p><i>Metric units are used for capacity and weight measurements in grade 3.</i></p>		
NC.3.MD.2	<ul style="list-style-type: none"> <li>Estimate and measure lengths in customary units to the quarter-inch and half-inch, and feet and yards to the whole unit.</li> <li>Estimate and measure capacity and weight in customary units to a whole number: cups, pints, quarts, gallons, ounces, and pounds.</li> <li>Add, subtract, multiply, or divide to solve one-step word problems involving whole number measurements of length, weight, and capacity in the same customary units.</li> </ul>	<p><b>Bridges in Mathematics</b>            Unit 4: M1 S3; M1 S4; M1 S5; M1 S6; M2 S1; M2 S2; M2 S3            Unit 8: M1 S2; M1 S4; M2 S3; M3 S3; M3 S4; M3 S5</p> <p><b>Number Corner</b>            October: Calendar Collector            December: Calendar Collector</p>

Standard	Descriptor	Citations	
Represent and interpret data.			
Represent and interpret scaled picture and bar graphs:			
<b>NC.3.MD.3</b>	<ul style="list-style-type: none"> <li>Collect data by asking a question that yields data in up to four categories.</li> <li>Make a representation of data and interpret data in a frequency table, scaled picture graph, and/or scaled bar graph with axes provided.</li> <li>Solve one and two-step “how many more” and “how many less” problems using information from these graphs.</li> </ul>	<b>Bridges in Mathematics</b> Unit 2: M3 S5; M4 S1; M4 S2 Unit 8: M1 S5; M2 S4; M3 S3	<b>Number Corner</b> September: Calendar Collector February: Solving Problems March: Calendar Grid May: Calendar Collector
Understand the concept of area.			
<b>NC.3.MD.5</b>	Find the area of a rectangle with whole-number side lengths by tiling without gaps or overlaps and counting unit squares.	<b>Bridges in Mathematics</b> Unit 5: M4 S1; M4 S2; M4 S3; M4 S4 Unit 6: M3 S5; M4 S1 Unit 8: M1 S2	<b>Number Corner</b> February: Calendar Grid March: Calendar Collector

Standard	Descriptor	Citations	
Understand the concept of area.			
Relate area to the operations of multiplication and addition.			
<p><b>NC.3.MD.7</b></p>	<ul style="list-style-type: none"> <li>Find the area of a rectangle with whole-number side lengths by tiling it and show that the area is the same as would be found by multiplying the side lengths.</li> <li>Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving problems, and represent whole-number products as rectangular areas in math reasoning.</li> <li>Use tiles and/or arrays to illustrate and explain that the area of a rectangle can be found by partitioning it into two smaller rectangles, and that the area of the large rectangle is the sum of the two smaller rectangles.</li> </ul>	<p><b>Bridges in Mathematics</b></p> <p>Unit 5: M4 S1; M4 S4  Unit 6: M3 S1; M3 S5  Unit 7: M1 S3; M1 S4; M2 S1; M2 S2; M2 S3; M2 S4; M2 S5  Unit 8: M1 S2; M1 S4; M4 S3</p>	<p><b>Number Corner</b></p> <p>November: Calendar Grid  February: Calendar Grid  March: Calendar Collector, Solving Problems  May: Calendar Grid</p>
Understand the concept of perimeter.			
<p><b>NC.3.MD.8</b></p>	<p>Solve problems involving perimeters of polygons, including finding the perimeter given the side lengths, and finding an unknown side length.</p>	<p><b>Bridges in Mathematics</b></p> <p>Unit 6: M3 S1; M3 S2; M3 S3; M3 S4; M3 S5  Unit 8: M2 S1; M4 S3</p>	<p><b>Number Corner</b></p> <p>February: Calendar Grid  March: Calendar Collector, Solving Problems</p>

### 3 G — Geometry

Standard	Descriptor	Citations	
Reason with shapes and their attributes.			
Reason with two-dimensional shapes and their attributes.			
<b>NC.3.G.1</b>	<ul style="list-style-type: none"> <li>Investigate, describe, and reason about composing triangles and quadrilaterals and decomposing quadrilaterals.</li> <li>Recognize and draw examples and non-examples of types of quadrilaterals including rhombuses, rectangles, squares, parallelograms, and trapezoids.</li> </ul>	<b>Bridges in Mathematics</b> Unit 4: M3 S3 Unit 6: M1 S1; M1 S2; M1 S3; M1 S4; M1 S5; M2 S1; M2 S2; M2 S3 M2 S4; M2 S5; M2 S6 Unit 8: M2 S2; M2 S5; M4 S3	<b>Number Corner</b> October: Calendar Grid