

EVERY DAY COUNTS<sup>®</sup> CALENDAR MATH

Grades K-5

&

EVERY DAY COUNTS<sup>®</sup> ALGEBRA READINESS

Grades 6-8

correlated to

North Carolina Mathematics Grade  
Level Foundations and Standards



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Teacher Edition  
correlated to  
North Carolina Mathematics Grade-Level  
Foundations and Standards  
Kindergarten**

Develop number sense for whole numbers through 30.

**NUMBER AND OPERATIONS**

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade K</b>
Connect model, number word (orally), and number, using a variety of representations.	19, 22-23, 25, 28, 33, 35, 37, 39, 40, 42- 43, 46, 48, 50, 53, 55, 57, 60, 62, 64, 68, 74, 76, 78, 81, 83, 88- 89, 91, 95, 99, 102- 103, 105, 108, 112, 116, 118, 120, 122 124, 128, 130- 131,
Count objects in a set	19, 22- 23, 25, 28, 33, 35, 37, 39- 40, 42- 43, 46, 48, 53, 55, 60, 62, 65, 69, 74, 76, 83, 88, 89, 91, 95, 99, 102- 103, 107, 108, 116, 118, 124, 128, 130- 131
Read and write numerals.	19, 22-23, 25, 28, 33, 35, 37, 39, 40, 42- 43, 46, 48, 50, 53, 55, 57, 60, 62, 64, 68, 74, 76, 78, 81, 83, 88- 89, 91, 95, 99, 102- 103, 105, 108, 112, 116, 118, 120, 122 124, 128, 130- 131,
Compare and order sets and numbers.	19, 21, 23, 25, 28, 33, 37, 39- 40, 43, 46, 53, 60, 65- 66, 74, 89, 91, 99, 102- 103, 105, 116, 120, 128
Recognize equivalence in sets and numbers 1-10.	21, 23, 25, 28, 33, 36- 37, 39- 40, 43, 48, 53, 55, 61, 63, 65- 66, 69, 76, 78, 81, 88, 90- 91, 93, 95, 103, 105, 112, 120, 131

## MEASUREMENT

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade K</b>
Compare attributes of two objects using appropriate vocabulary (color, weight, height, width, length, texture).	25, 28, 36, 39, 40, 47- 48, 53, 56, 61, 68, 70, 75, 78, 82, 92, 99, 102, 107, 112, 117, 121, 124, 130, 132, 133, 134
Recognize concepts of calendar time using appropriate vocabulary (days of the week, months of the year, seasons).	18-20, 32-33, 46-47, 60-61, 74-75, 87-88, 102-103, 112-113, 128-129

## GEOMETRY

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade K</b>
Identify, build, draw, and name triangles, rectangles, and circles; identify, build, and name spheres and cubes.	20, 23, 28, 47, 61, 75, 102, 117, 133, 134
Compare geometric shapes (identify likenesses and differences).	28, 47, 61, 75, 117, 133, 134
Model and use directional and positional vocabulary.	21, 23, 32-34, 40, 61, 66-67, 77-79, 92, 112, 134
Complete simple spatial visualization tasks and puzzles.	28, 34, 47, 50-52, 62, 77-79, 92, 112, 134

## DATA ANALYSIS AND PROBABILITY

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade K</b>
Collect and organize data as a group activity.	27-29, 41-43, 54-57, 67-71, 80-83, 94-97, 108-111, 122-123, 133-134
Display and describe data with concrete and pictorial graphs as a group activity.	27-29, 54-55, 67-69, 80-81, 122-123, 133-135

# A L G E B R A

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade K</b>
Sort and classify objects by one attribute.	21, 23, 28, 3, 36, 37, 40, 47, 49, 53, 61, 68, 74, 76, 88, 102, 117, 128
Create and extend patterns with actions, words, and objects.	19, 23, 33, 36, 37, 39, 40, 47, 48, 61, 74, 88, 102, 107, 117, 121, 128, 132



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Foundations and Standards  
Grade 1**

Develop number sense for whole numbers through 99.

**NUMBER AND OPERATION**

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 1</b>
Connect the model, number word, and number using a variety of representations.	21, 36, 41, 49, 51, 52, 65, 66, 75, 78, 83, 90-92, 99, 104, 109, 118, 130
Use efficient strategies to count the number of objects in a set.	21, 25, 28, 36, 41, 51, 52, 56, 63, 65, 66, 68, 75, 78-80, 83, 92, 95, 97, 99, 107, 109, 110, 116, 118, 121, 130, 131
Read and write numbers.	19, 21, 25, 28, 31, 34, 36, 41, 43, 45, 49, 51-52, 56, 63, 65-66, 68-69, 74-75, 78-80-, 82-83, 88-89, 91-92, 95-97, 99, 102, 104, 109-111, 116, 118, 122, 124, 128, 130, 133
Compare and order sets and numbers.	18-20, 30-31, 34-36, 40-42, 48-49, 55-57, 62-64, 68-69, 74-75, 87-88, 91-92, 102-103, 105-106, 116-117, 123-125, 128-132
Build understanding of place value (ones, tens).	24-27, 36-38, 40-42, 52-53, 55-57, 66-67, 86, 91-94, 107-108, 121-122, 131-132
Estimate quantities fewer than or equal to 100.	27, 31, 36, 41, 49, 52, 65, 68, 89, 99, 111, 116, 131
Use groupings of 2's, 5's, and 10's with models and pictures to count collections of objects.	27-41, 43, 52, 56, 59, 66, 68, 70, 78-80, 82, 91, 92, 95, 97, 109-110, 118, 122, 131, 133

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 1</b>
Develop fluency with single-digit addition and corresponding differences using strategies such as modeling, composing and decomposing quantities, using doubles, and making tens.	19, 21, 25, 36, 41, 45, 51, 56, 65-66, 68, 75, 79, 80, 82, 89, 91, 92, 95, 99, 102, 104, 107, 109, 116, 118, 121, 128, 130, 131
Create, model, and solve problems that use addition, subtraction, and fair shares (between two or three).	21, 25, 34, 36, 41, 51-52, 56, 68-69, 75, 78, 79, 89, 91, 99, 128, 130

## M E A S U R E M E N T

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 1</b>
Select an attribute (length, capacity, mass) to measure (use non-standard units).	38-40, 52-53, 86, 105-106, 119-121
Develop strategies to estimate size.	38-40, 54-55, 86, 105-106, 119-121
Compare, using appropriate language, with respect to the attribute selected.	39, 54, 66, 74, 105, 120
Develop an understanding of the concept of time. Tell time at the hour and half-hour	28-30, 43, 57-59, 70-71, 81-82, 97-98, 110-111
Solve problems involving applications of time (clock and calendar).	18-20, 28-30, 34-35, 43, 48-49, 57-59, 62-63, 70-71, 74-75, 81-82, 87-88, 97-98, 102-103, 110-111, 116-117, 128-129

## G E O M E T R Y

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 1</b>
Identify, build, draw and name parallelograms, squares, trapezoids, and hexagons.	135
Identify, build, and name cylinders, cones, and rectangular prisms.	135
Compare and contrast geometric figures.	135

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 1</b>
Solve problems involving applications of time (clock and calendar).	18-20, 28-30, 34-35, 43, 48-49, 57-59, 62-63, 70-71, 74-75, 81-82, 87-88, 97-98, 102-103, 110-111, 116-117, 128-129

## DATA ANALYSIS AND PROBABILITY

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 1</b>
Collect, organize, describe and display data using line plots and tallies.	31, 49, 83, 99, 105, 111, 124
Describe events as certain, impossible, more likely or less likely to occur.	31, 35, 44, 49, 83, 99, 105, 111, 124, 134

## ALGEBRA

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 1</b>
Sort and classify objects by two attributes.	19, 35, 39, 49, 63, 74, 88, 99, 102, 116, 128
Create and extend patterns, identify the pattern unit, and translate into other forms.	19, 35, 42, 49, 63, 68, 74-75, 79, 88, 92, 99, 102, 104, 107, 116, 118, 121, 128, 130, 131



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Foundations and Standards  
Grade 2**

Develop number sense for whole numbers through 999

**NUMBER AND OPERATIONS**

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 2</b>
Connect model, number word, and number using a variety of representations	21, 24, 26, 35, 38, 46, 48, 50, 53, 55, 57-58, 65, 67, 72, 76, 87-88, 90-91, 96, 102, 104, 117
Read and write numbers.	19, 21, 24, 26, 32, 35, 38-39, 46, 48, 50, 53, 55, 57,-58, 62-63, 65, 67-68, 72, 74, 76, 80, 82-83, 87-88, 90-91, 96, 102, 104, 116,-117, 121-122, 126, 129
Compare and order..	19, 21, 24, 26, 32, 35, 38-39, 46, 48, 50, 53, 55, 57,-58, 62-63, 65, 67-68, 72, 74, 76, 80, 82-83, 87-88, 90-91, 96, 102, 104, 116,-117, 121-122, 126, 129
Estimate	50-52, 64-66, 92-94, 107-108, 119-121
Use a variety of models to build understanding of place value (ones, tens, hundreds).	21, 24, 35, 38, 48, 53, 65, 76, 80, 90, 95, 109, 121
Use area or region models and set models of fractions to explore part-whole relationships in contexts. Represent fractions (halves, thirds, fourths) concretely and symbolically.	105-106
Compare fractions (halves, thirds, fourths) using models.	105-106
Combine fractions to describe parts of a whole	106

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 2</b>
Develop fluency with multi-digit addition and subtraction through 999 using multiple strategies. Strategies for adding and subtracting numbers.	21, 24, 35, 48, 53, 55, 63, 65, 68, 72, 74, 76, 80, 88, 90, 96, 104, 109, 110, 121, 126, 129
Estimation of sums and differences in appropriate situations.	64-66
Relationships between operations	21, 24, 35, 48, 63, 65, 72, 74, 88, 90, 104, 109, 110
Create and solve problems using strategies such as modeling, composing and decomposing quantities, using doubles, and making tens and hundreds	48-50, 62-66, 89-91
Define and recognize odd and even numbers.	19

## M E A S U R E M E N T

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 2</b>
Estimate and measure using appropriate units. Length (meters, centimeters, feet, inches, yards).	50-52, 92-94, 107-108, 119-120
Temperature (Fahrenheit)	78-80
Tell time at the five-minute intervals.	39-41, 57, 68-69, 91-92

## G E O M E T R Y

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 2</b>
Combine simple figures to create a given shape.	72
Describe the change in attributes as two- and three-dimensional figures are cut and rearranged.	72

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 2</b>
Identify and make: Symmetric figures.	72, 87, 116
Identify and make: Congruent figures.	32-34, 72-73, 87, 116

**D A T A   A N A L Y S I S   A N D   P R O B A B I L I T Y**

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 2</b>
Collect, organize, describe and display data using Venn diagrams (three sets) and pictographs where symbols represent multiple units (2's, 5's, and 10's).	42, 58, 78, 83, 92, 98, 112, 130
Conduct simple probability experiments; describe the results and make predictions.	28, 42, 58, 78, 83, 98, 112, 130

**A L G E B R A**

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 2</b>
Identify, describe, translate, and extend repeating and growing patterns.	19, 24, 32, 46, 53, 62, 72, 87, 95, 102, 109, 116, 121, 126, 127
Write addition and subtraction number sentences to represent a problem; use symbols to represent unknown quantities.	21-22, 35, 48, 64-65, 74-77, 81, 88, 90, 109-110, 128-129



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**Foundations and Standards**  
**Grade 3**

Develop number sense for whole numbers through 9,999.

**NUMBER AND OPERATIONS**

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 3</b>
Connect model, number word, and number using a variety of representations.	18, 21, 24, 26, 32, 34, 39, 41, 42, 48, 52, 54, 55, 57, 58, 60, 66, 68-71, 74, 77, 79, 81-83, 89-90, 92, 97, 99, 102, 104, 106, 107, 109, 110, 112, 116, 118, 120, 122, 125, 128, 130, 132, 133, 134
Build understanding of place value (ones through thousands).	24, 26, 41, 57, 70, 71, 82, 95, 97, 110, 122-123, 133
Compare and order.	18, 21, 24, 26, 32, 34, 39, 41, 42, 48, 52, 54, 55, 57, 58, 60, 66, 68-71, 74, 77, 79, 81-83, 89-90, 92, 97, 99, 102, 104, 106, 107, 109, 110, 112, 116, 118, 120, 122, 125, 128, 130, 132, 133, 134
Develop fluency with multi-digit addition and subtraction through 9,999 using: Strategies for adding and subtracting numbers.	26, 41-42, 57, 70, 71, 74, 82, 94, 95-96, 110, 118, 122, 125, 134
Estimation of sums and differences in appropriate situations.	26, 70, 81, 82, 95-96, 110
Relationships between operations.	18, 48, 55, 66, 69, 74, 77, 81, 90, 94, 102, 104, 109, 116, 118, 122, 123, 125, 130, 132, 134

Grade-Level Expectation	Every Day Counts Teacher Edition, Grade 3
<p>Develop fluency with multiplication from 1x1 to 12x12 and division up to two-digit by one-digit numbers using:</p> <p>Strategies for multiplying and dividing numbers.</p>	<p>66, 69, 74, 77, 81, 90, 94, 102, 104, 109, 116, 122, 123, 134</p>
<p>Estimation of products and quotients in appropriate situations.</p>	<p>125, 134</p>
<p>Relationships between operations.</p>	<p>66, 69, 74, 77, 81, 90, 94, 102, 104, 109, 116, 122, 123, 134</p>
<p>Use basic properties (identity, commutative, associative, order of operations) for addition, subtraction, multiplication, and division.</p>	<p>90, 94, 130</p>
<p>Represent fractions concretely and symbolically (halves, fourths, thirds, sixths, eighths).</p>	<p>64, 89, 116, 130</p>
<p>Compare and order fractions (halves, fourths, thirds, sixths, eighths) using models and benchmark numbers (zero, one-half, one); describe comparisons.</p>	<p>64, 89, 116, 130</p>
<p>Model and describe common equivalents, especially relationships among halves, fourths, and eighths, and thirds and sixths.</p>	<p>64, 89, 116, 130</p>
<p>Understand and use mixed numbers and their equivalent fraction forms.</p>	<p>105-106</p>
<p>Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.</p>	<p>26, 70, 81, 82, 95-96, 110</p>

## MEASUREMENT

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 3</b>
Solve problems using measurement concepts and procedures involving:  Elapsed time.	54, 68, 107
Equivalent measures within the same measurement system.	35-37, 51-53
Estimate and measure using appropriate units.	35-37, 51-53
Capacity (cups, pints, quarts, gallons, liters).	91-93, 120-121
Length (miles, kilometers)	35-37, 51-53, 78-80
Mass (ounces, pounds, grams, kilograms).	105-106
Temperature (Fahrenheit, Celsius).	44-45

## GEOMETRY

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 3</b>
Use appropriate vocabulary to compare, describe, and classify two- and three-dimensional figures.	74, 128
Graph and identify points with whole number and/or letter coordinates.	60-61
Describe the path between given points on the plane.	60-61

## DATA ANALYSIS AND PROBABILITY

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 3</b>
Collect, organize, analyze, and display data (including circle graphs and tables) to solve problems.	28, 44, 85, 99, 112, 135
Solve probability problems using permutations and combinations.	28-29, 44-45, 85, 112-113

## ALGEBRA

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 3</b>
Describe and extend numeric and geometric patterns.	18, 32, 39, 48, 55, 64, 69, 74, 81, 89, 94, 102, 109, 116, 122, 128, 132
Extend and find missing terms of repeating and growing patterns.	18-20, 23-25, 32-33, 48-49, 64-65, 74-76, 88-89, 95-97, 102-103, 116-117



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Grade 4**

Develop number sense for rational numbers 0.01 through 99,999.

**NUMBER AND OPERATIONS**

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 4</b>
Connect model, number word, and number using a variety of representations.	21, 23, 26, 32, 34, 36, 38, 40, 42-43, 50, 52, 54, 56, 58, 62, 64, 68, 70, 81, 83, 85, 94, 99
Build understanding of place value (hundredths through ten thousands).	21, 34, 36, 42, 50, 58, 59, 64, 94, 99, 108, 113, 123, 137
Compare and order rational numbers.	21, 23, 26, 32, 34, 36, 38, 40, 42-43, 50, 52, 54, 56, 58, 62, 64, 68, 70, 81, 83, 85, 94, 99
Make estimates of rational numbers in appropriate situations.	21, 34, 42, 50, 64, 72, 79, 94, 99, 108, 123
Strategies for multiplying and dividing numbers.	18, 23, 36, 40, 48, 56, 70, 72, 93, 98, 112, 129, 138
Estimation of products and quotients in appropriate situations.	113
Relationships between operations.	26, 40-41, 56-57, 70-71, 84-86, 97-98, 111-112

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 4</b>
Solve problems using models, diagrams, and reasoning about fractions and relationships among fractions involving halves, fourths, eighths, thirds, sixths, twelfths, fifths, tenths, hundredths, and mixed numbers.	26, 36, 38, 52, 54, 66, 68, 81, 83, 127
Develop fluency with addition and subtraction of non-negative rational numbers with like denominators, including decimal fractions through hundredths. Develop and analyze strategies for adding and subtracting numbers.	26, 42, 52, 54, 58, 59, 66, 72, 83, 87, 94, 99, 108, 110, 113, 123, 127
Estimate sums and differences.	21-23, 34-37, 50-53, 63-67, 72, 79-82, 94-95, 108-111, 122-123, 136-137
Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	21, 34, 50, 64, 72, 79, 94, 99, 108, 123

## M E A S U R E M E N T

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 4</b>
Develop strategies to determine the area of rectangles and the perimeter of plane figures.	95, 124
Solve problems involving perimeter of plane figures and areas of rectangles.	95, 124

## G E O M E T R Y

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 4</b>
Describe the relative position of lines using concepts of parallelism and perpendicularity.	18, 48-49, 106
Identify, predict, and describe the results of transformations of plane figures. Reflections.	32-34

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 4</b>
Translations.	32-34, 48-50, 76-78
Rotations.	18-20, 32-34, 48-50, 92-94

## DATA ANALYSIS AND PROBABILITY

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 4</b>
Collect, organize, analyze, and display data (including line graphs and bar graphs to solve problems.	28, 44, 88, 101, 116, 123, 140
Describe the distribution of data using median, range and mode.	116
Solve problems by comparing two sets of related data.	44-45, 88-89, 101-103
Design experiments and list all possible outcomes and probabilities for an event.	28, 44-45, 88-89, 101-103, 123

## ALGEBRA

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 4</b>
Translate among symbolic, numeric, verbal, and pictorial representations of number relationships.	70, 76, 106, 138
Verify mathematical relationships using: Models, words, and numbers.	70, 76, 106, 138
Order of operations and the identity, commutative, associative, and distributive properties.	85, 112



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Foundations and Standards  
Grade 5**

Develop number sense for rational numbers 0.001 through 999,999.

**NUMBER AND OPERATIONS**

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 5</b>
Connect model, number word, and number using a variety of representations.	25-28, 44-45, 56, 59, 70-71, 81, 98-99, 110, 121, 133
Build understanding of place value (thousandths through hundred thousands).	21-24, 37-38
Compare and order rational numbers.	25-28, 44-45, 56, 70-71, 81, 98-99, 110, 121, 133
Make estimates of rational numbers in appropriate situations.	37-38, 58, 94-96, 122-125
Develop fluency in adding and subtracting non-negative rational numbers (halves, fourths, eighths; thirds, sixths, twelfths; fifths, tenths, hundredths, thousandths; mixed numbers). Develop and analyze strategies for adding and subtracting numbers.	26, 39, 44, 52, 56, 65, 70, 79, 81, 92, 94, 97, 99, 104, 110, 119, 133
Estimate sums and differences.	22, 38, 70, 122

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 5</b>
Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	24, 57, 86, 122

## M E A S U R E M E N T

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 5</b>
Estimate the measure of an object in one system given the measure of that object in another system.	57
Identify, estimate, and measure the angles of plane figures using appropriate tools.	74, 107, 116

## G E O M E T R Y

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 5</b>
Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.	18-21, 34-37, 48-49, 74-76
Make and test conjectures about polygons involving: Sum of the measures of interior angles.	74-76
Lengths of sides and diagonals.	74-76
Parallelism and perpendicularity of sides and diagonals.	18-21, 74-76
Parallelism and perpendicularity of sides and diagonals.	18-20, 74-76

## DATA ANALYSIS AND PROBABILITY

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 5</b>
Collect, organize, analyze, and display data (including stem-and-leaf plots) to solve problems.	29, 57, 112, 122
Compare and contrast different representations of the same data; discuss the effectiveness of each representation.	29, 57, 112, 122
Solve problems with data from a single set or multiple sets of data using median, range, and mode.	57-59

## ALGEBRA

<b>Grade-Level Expectation</b>	<b>Every Day Counts Teacher Edition, Grade 5</b>
Describe, extend, and generalize numeric and geometric patterns using tables, graphs, words, and symbols.	19, 35, 48, 56, 63, 74, 79, 82, 87, 99, 102, 110, 116, 128
Use algebraic expressions, patterns, and one-step equations and inequalities to solve problems.	19, 48, 90, 116, 128



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**Foundations and Standards**  
**Grade 6**

**NUMBER AND OPERATIONS**

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 6</b>
Develop number sense for negative rational numbers. Connect the model, number word, and number using a variety of representations, including the number line.	131-135, 154-158, 164-166
Compare and order.	131-135, 154-158, 164-166
Make estimates in appropriate situations.	37, 120-121
Develop meaning for percents. Connect the model, number word, and number using a variety of representations.	28-30, 42-43, 55-57, 72-73, 91-92, 109, 145, 166-169
Compare and order rational numbers.	29, 36, 42, 44, 47, 55, 64, 72, 80, 91, 93, 99, 109, 121, 125, 146, 167, 178, 181
Develop fluency in addition, subtraction, multiplication, and division of non-negative rational numbers. Analyze computational strategies.	42, 44, 55, 64, 72, 80, 91, 93, 95, 109, 125, 167, 178, 181

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 6</b>
Judge the reasonableness of solutions.	125
Develop fluency in the use of factors, multiples, exponential notation, and prime factorization.	24-28, 40-42, 52-55, 71-72, 88-91, 93-94, 96-98
Use exponential, scientific, and calculator notation to write very large and very small numbers.	24, 26, 60, 71, 95, 96, 137
Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	29, 36, 42, 47, 55, 64, 72, 80, 91, 93, 109, 125, 167, 178, 181

## M E A S U R E M E N T

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 6</b>
Estimate and measure length, perimeter, area, angles, weight, and mass of two- and three-dimensional figures, using appropriate tools.	58, 74, 115, 125, 128, 146, 172, 187
Solve problems involving perimeter/circumference and area of plane figures.	31, 44, 50, 68, 110, 115, 136

## G E O M E T R Y

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 6</b>
Identify and describe the intersection of figures in a plane.	110
Identify the radius, diameter, chord, center, and circumference of a circle; determine the relationships among them.	110-136
Transform figures in the coordinate plane and describe the transformation.	86, 106

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 6</b>
Solve problems involving geometric figures in the coordinate plane.	117, 137-139, 186-189

**D A T A   A N A L Y S I S   A N D   P R O B A B I L I T Y**

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 6</b>
Develop fluency with counting strategies to determine the sample space for an event. Include lists, tree diagrams, frequency distribution tables, permutations, combinations, and the Fundamental Counting Principle.	159-161, 175-177
Use a sample space to determine the probability of an event.	159-161
Conduct experiments involving simple and compound events.	159-161, 175-177
Determine and compare experimental and theoretical probabilities for simple and compound events.	159-161, 175-177
Determine and compare experimental and theoretical probabilities for independent and dependent events.	159-161, 175-177
Design and conduct experiments or surveys to solve problems; report and analyze results.	82, 123, 159-161, 175-177

**A L G E B R A**

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 6</b>
Simplify algebraic expressions and verify the results using the basic properties of rational numbers.	
Commutative.	33
Order of operations.	43-44

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 6</b>
Use and evaluate algebraic expressions.	31, 34, 41, 45, 60, 63, 75, 78, 80, 95-96, 99, 106, 121, 137, 164, 181
Solve simple (one- and two-step) equations or inequalities.	31, 34, 41, 45, 60, 63, 75, 78, 80, 95-96, 99, 106, 121, 137, 164, 181
Use graphs, tables, and symbols to model and solve problems involving rates of change and ratios.	110-114, 144-145, 179



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**North Carolina Mathematics Grade-Level**  
**Foundations and Standards**  
**Grade 7**

**NUMBER AND OPERATIONS**

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 7</b>
Develop and use ratios, proportions, and percents to solve problems.	29, 36, 42, 47, 55, 64, 72, 80, 91, 93, 99, 109, 110, 121
Develop fluency in addition, subtraction, multiplication, and division of rational numbers. Analyze computational strategies.	36, 40-42, 44, 45, 47, 55, 63, 64, 71, 72, 80, 91, 95, 96, 99, 109, 121, 135, 137, 163, 164, 167, 181
Estimate the results of computations.	36-37, 100-101, 120-121
Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	100-101, 120-121

**MEASUREMENT**

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 7</b>
Solve problems involving volume and surface area of cylinders, prisms, and composite shapes.	150, 167, 172, 187

## G E O M E T R Y

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 7</b>
Using three-dimensional figures: Identify, describe, and draw from various views (top, side, front, corner).	150-154, 172-174, 186-189
Build from various views.	154, 172-174, 186-189
Describe cross-sectional views.	174
Identify, define, and describe similar and congruent polygons with respect to angle measures, length of sides, and proportionality of sides.	27, 86, 106-107, 129, 152, 172-174,
Use scaling and proportional reasoning to solve problems related to similar and congruent polygons.	177-180

## D A T A A N A L Y S I S A N D P R O B A B I L I T Y

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 7</b>
Collect, organize, analyze, and display data (including box plots and histograms) to solve problems.	82, 102, 123, 142, 160, 183
Calculate, use, and interpret the mean, median, mode, range, frequency distribution, and inter-quartile range for a set of data.	82-83
Identify outliers and determine their effect on the mean, median, mode, and range of a set of data.	82-83
Solve problems involving two or more sets of data using appropriate statistical measures.	123, 183

## A L G E B R A

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 7</b>
Identify, analyze, and create linear relations, sequences, and functions using symbols, graphs, tables, diagrams, and written descriptions.	45-46, 79-80, 164-166
Use and evaluate algebraic expressions, linear equations or inequalities to solve problems.	31, 34, 41, 44, 45, 60, 63, 75, 78, 80, 95, 96, 99, 106, 137, 164, 181
Develop fluency in the use of formulas to solve problems.	110-116, 135-136, 137-139, 164-166



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**Grade 8**

**NUMBER AND OPERATIONS**

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 8</b>
Develop number sense for the real numbers. Define and use irrational numbers.	110-114, 135-136
Compare and order.	110-114, 135-136
Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	137-139

**MEASUREMENT**

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 8</b>
Determine the effect on perimeter, area or volume when one or more dimensions of two- and three-dimensional figures are changed.	150-154, 172-174, 186-189

## G E O M E T R Y

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 8</b>
Represent problem situations with geometric models.	150-154, 172-174, 186-189

## D A T A A N A L Y S I S A N D P R O B A B I L I T Y

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 8</b>
Collect, organize, analyze, and display data (including scatterplots) to solve problems.	101-103, 142-145, 182-185
Approximate a line of best fit for a given scatterplot; explain the meaning of the line as it relates to the problem and make predictions.	182-185

## A L G E B R A

<b>Grade-Level Expectation</b>	<b>EDC Algebra Readiness Teacher Guide, Gr. 8</b>
Develop an understanding of function. Translate among verbal, tabular, graphic, and algebraic representations of functions.	96-98, 117-120
Identify relations and functions as linear or nonlinear.	94-96, 96-98
Solve problems using linear equations and inequalities; justify symbolically and graphically.	164-166



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