

Subject Math
Student
Student ID 2020
Student Grade 2
Placement Definition Standard View
Diagnostic Diagnostic 1 (11/27/20)

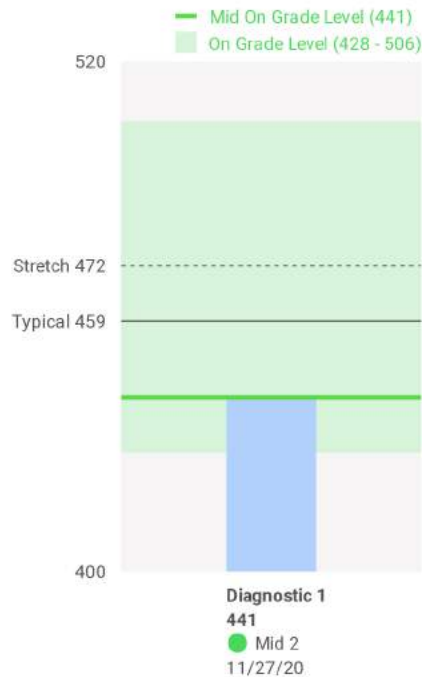
Diagnostic 1

Typical Growth

Typical Growth: The average annual growth for a student at this grade and initial placement level.

Stretch Growth

Stretch Growth: An ambitious, but attainable, level of annual growth that puts students who are not yet proficient (Mid On Grade Level or above) on a path to proficiency and helps students who are already on track for proficiency to achieve or maintain advanced proficiency levels.



This Diagnostic used to establish Growth Measures.

Overall

● Mid 2 (441)
 Standard Error +/- 7

Domain	Placement
Number and Operations	● Grade 1
Algebra and Algebraic Thinking	● Mid 2
Measurement and Data	● Late 2
Geometry	● Mid 2

National Norm and Quantile® Performance

National Norm (Updated 2020):
 79th Percentile

Quantile Measure: 505Q
Quantile Range: 455Q-555Q

[Understanding Quantile measures](#)

Placement by Domain

Test results indicate that Caleb would benefit from review of various prior grade level skills and concepts related to quantitative reasoning and modeling. Instruction that connects counting patterns with addition and subtraction concepts will strengthen Caleb's math abilities across domains. This priority places Caleb in Instructional Grouping Profile 2.

Number and Operations

● Grade 1
 408

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Developmental Analysis

At placement levels K-2 this domain addresses counting, the base-ten number system, and the operations of addition and subtraction. Test results indicate that Caleb could benefit from gaining fluency with addition and subtraction concepts, using numbers with different numbers of digits and regrouping.

Can Do

Counting and Cardinality

Identify the number that is one more than a given number to ten.

Identify the number that is one less than a given number to ten.

Count forward by 1s from any number less than 100.

Count backward by 1s from any number less than 100.

Base Ten

Add and subtract within 5.

Use a number line to count up or back to add or subtract 1 or 2 from numbers to 20.

Express numbers from 11 to 19 using tens and ones.

Next Steps & Resources for Instruction

Base Ten

[Recognize numerals up to 100.](#)

Recognize numerals up to 100.

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox

Subject	Math
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Grade 1

Lesson 12: Understand Teen Numbers

Lesson 17: Understand Tens

Lesson 18: The 120 Chart

Lesson 21: Understand Tens and Ones

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 12: Understand Teen Numbers

Lesson 17: Understand Tens

Lesson 18: The 120 Chart

Lesson 21: Understand Tens and Ones

[Count forward from any number to 120.](#)

Count forward from any number to 120.

Tools For Instruction

Patterns on the Hundred Chart 

Tools for Instruction in Spanish (Grade 1) 

Additional Resources

Ready® Classroom



Grade 1

Lesson 20: Counting to 120

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Compare and order two-digit numbers.

Compare and order two-digit numbers.

Tools For Instruction

Compare Two-Digit Numbers 

Tools for Instruction in Spanish (Grade 1) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 22: Compare Numbers

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 22: Compare Numbers

Ready® Classroom



Grade 1

Lesson 22: Compare Numbers

Compare two numbers to 100 using the symbols $>$, $<$, or $=$.

Compare two numbers to 100 using the symbols $>$, $<$, or $=$.

Additional Resources

Curriculum Associates

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Ready® Classroom

Ready® Classroom Mathematics

Grade 1

Lesson 22: Compare Numbers

Group up to 100 objects in sets of 10.

Group up to 100 objects in sets of 10.

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 12: Understand Teen Numbers

Lesson 17: Understand Tens

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 12: Understand Teen Numbers

Lesson 17: Understand Tens

Add within 20.

Add within 20.

Tools For Instruction

Make a Ten to Add Within 20 

Curriculum Associates

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[Tools for Instruction in Spanish \(Grade 1\)](#) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 13: Understand Sums Greater than 10

Lesson 14: Make a Ten to Add

Lesson 15: Add Three Numbers

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 13: Understand Sums Greater than 10

Lesson 14: Make a Ten to Add

Lesson 15: Add Three Numbers

Ready® Classroom

Ready® Classroom
Mathematics

Grade 1

Lesson 2: Doubles and Near Doubles

Lesson 3: Add in Any Order

Lesson 10: Use Strategies for Addition and Subtraction Facts

Lesson 12: Make a Ten to Add

Lesson 13: Totals Greater than 10


[Subtract within 20.](#)


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Subtract within 20.

Tools For Instruction

Subtraction Within 20 

Addition and Subtraction Facts 

Tools for Instruction in Spanish (Grade 1) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 16: Make a Ten to Subtract

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 16: Make a Ten to Subtract

Ready® Classroom



Grade 1

Lesson 2: Doubles and Near Doubles

Lesson 10: Use Strategies for Addition and Subtraction Facts

Lesson 15: Make a Ten to Subtract

[Add a two-digit number and a one-digit number.](#)

Add a two-digit number and a one-digit number.

Tools For Instruction

Curriculum Associates

Subject	Math
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Add Two- and One-Digit Numbers 
Tools for Instruction in Spanish (Grade 1) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 13: Understand Sums Greater than 10

Lesson 25: Add and Regroup

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 13: Understand Sums Greater than 10

Lesson 25: Add and Regroup

Ready® Classroom


Grade 1

Lesson 25: Add and Subtract Tens


Lesson 28: Add Two-Digit and One-Digit Numbers

Lesson 29: Add Two-Digit Numbers

Use base-ten models to represent a two-digit number and identify the corresponding numeral.

Use base-ten models to represent a two-digit number and identify the corresponding numeral.

Tools For Instruction

Tens and Ones 

Curriculum Associates

Subject	Math
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[Tools for Instruction in Spanish \(Grade 1\)](#) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 12: Understand Teen Numbers

Lesson 17: Understand Tens

Lesson 21: Understand Tens and Ones

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 12: Understand Teen Numbers

Lesson 17: Understand Tens

Lesson 21: Understand Tens and Ones

Add two-digit numbers without regrouping.

Add two-digit numbers without regrouping.

Tools For Instruction

[Two-Digit Addition Without Regrouping](#) 

[Tools for Instruction in Spanish \(Grade 1\)](#) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox

Subject	Math
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Grade 1

Lesson 20: Add and Subtract Tens

Lesson 23: Add Tens to Any Number

Lesson 24: Add Tens and Add Ones

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 20: Add and Subtract Tens

Lesson 23: Add Tens to Any Number

Lesson 24: Add Tens and Add Ones

Subtract multiples of 10 from two-digit numbers, including multiples of 10.

Subtract multiples of 10 from two-digit numbers, including multiples of 10.

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 19: Understand 10 More and 10 Less

Lesson 20: Add and Subtract Tens

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox

Subject	Math
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Grade 1

Lesson 19: Understand 10 More and 10 Less

Lesson 20: Add and Subtract Tens

Ready® Classroom



Grade 1

Lesson 25: Add and Subtract Tens

Lesson 26: Understand 10 More and 10 Less

Solve word problems involving the addition of three whole numbers whose sum is less than or equal to 20 using drawings, objects, or equations.

Solve word problems involving the addition of three whole numbers whose sum is less than or equal to 20 using drawings, objects, or equations.

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 15: Add Three Numbers

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 1

Lesson 15: Add Three Numbers

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Ready® Classroom



Grade 1

Lesson 14: Add Three Numbers

Algebra and Algebraic Thinking

● Mid 2
440

Developmental Analysis

At placement levels K-2 this domain addresses skip-counting, fact families, and using equations to solve addition and subtraction problems. Caleb's score indicates an appropriate understanding of addition and subtraction concepts applied to solving problems. Caleb may be ready to develop basic multiplication and division concepts and learn to apply these concepts in choosing the proper operation to solve word problems.

Can Do

Operations and Algebraic Thinking

Solve subtraction problems by counting back 1, 2, or 3.

Solve subtraction problems for separation or take away situations and check the solution using addition.

Solve subtraction problems for comparison situations.

Use addition to check subtraction equations for part-part-whole situations.

Demonstrate an understanding that a group of objects is an even number of objects if it can be divided into complete pairs and is odd if it cannot; express even numbers as doubles facts.

Next Steps & Resources for Instruction

Operations and Algebraic Thinking

[Represent and solve addition and subtraction word problems using equations with unknowns in all positions.](#)

Represent and solve addition and subtraction word problems using equations with unknowns in all positions.


Tools For Instruction

Curriculum Associates

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Solve One-Step Addition and Subtraction Word Problems 

Solve Two-Step Addition and Subtraction Word Problems 

Two-Digit Addition and Subtraction 

Add and Subtract Three-Digit Numbers 

Find the Unknown Number 

Tools for Instruction in Spanish (Grade 2) 

Additional Resources

Ready® Classroom



Lesson 3: Solve One-Step Word Problems

Lesson 5: Solve Two-Step Word Problems

Lesson 9: Solve Word Problems with Two-Digit Numbers

Lesson 10: Solve Word Problems Involving Money

Identify odd and even numbers up to 20.

Identify odd and even numbers up to 20.

Tools For Instruction

Identifying Even and Odd Numbers 

Tools for Instruction in Spanish (Grade 2) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 2

Lesson 4: Understand Even and Odd Numbers

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox

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Student Grade	2
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Grade 2


Lesson 4: Understand Even and Odd Numbers

Write multiplication sentences to represent equal groups and repeated addition.

Write multiplication sentences to represent equal groups and repeated addition.

Tools For Instruction

Multiplication Concepts and Equations 

Tools for Instruction in Spanish (Grade 2) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 1: Understand the Meaning of Multiplication

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 1: Understand the Meaning of Multiplication

Write a multiplication sentence to represent objects in a rectangular array, recognizing that the order of factors does not affect the product.

Write a multiplication sentence to represent objects in a rectangular array, recognizing that the order of factors does not affect the product.

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Tools For Instruction

Multiplication Facts with 3, 4, and 6 

Multiplication Facts with 7, 8, and 9 

Tools for Instruction in Spanish (Grade 2) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 1: Understand the Meaning of Multiplication

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 1: Understand the Meaning of Multiplication

Select the proper operation to solve real-world and mathematical problems.

Select the proper operation to solve real-world and mathematical problems.

Measurement and Data

- Late 2
502

Developmental Analysis

At placement levels K-2 this domain addresses the concept of measurement units, especially for length and time. It also includes showing data on simple graphs. Caleb's score indicates an understanding of measuring length in different units and creating picture and bar graphs. Test results indicate Caleb may be ready to further develop concepts and skills related to telling time, determining elapsed time, and creating and interpreting line plots.

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Can Do

Measurement

Tell time to the nearest five minutes.
Choose the best unit to measure length: centimeters or meters.
Describe how the size of a unit of measurement relates to the number of units needed to equal the length of an object.
Use a ruler to measure length in centimeters.
Solve problems involving comparing lengths of objects.
Represent whole numbers as lengths on a number line.
Represent whole number addition and subtraction within 100 on a number line.
Identify and compare the values of coin combinations (pennies, nickels, dimes, quarters).

Data

Create or interpret a picture graph with a single-unit scale to represent data that include multiple categories.
Construct a bar graph with a single-unit scale to represent data that includes multiple categories, and solve simple joining, separating, and comparing problems based on the data displayed.

Next Steps & Resources for Instruction

Measurement

[Tell time to the minute and measure time intervals in minutes.](#)

Tell time to the minute and measure time intervals in minutes.

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox

Subject	Math
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Grade 3

Lesson 20: Tell and Write Time

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 21: Tell and Write Time

Ready® Classroom


Grade 3

Lesson 27: Time

Solve word problems involving addition and subtraction of time intervals in minutes involving elapsed time less than 60 minutes.

Solve word problems involving addition and subtraction of time intervals in minutes involving elapsed time less than 60 minutes.

Tools For Instruction

Elapsed Time 

Tools for Instruction in Spanish (Grade 2) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

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Lesson 21: Solve Problems About Time

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 22: Solve Problems About Time

Ready® Classroom



Grade 3

Lesson 27: Time

Choose inches, feet, yards, or miles to measure length.

Choose inches, feet, yards, or miles to measure length.

Choose ounces, pounds, or tons to measure weight.

Choose ounces, pounds, or tons to measure weight.

Data

Show data on a line plot with a scale that includes whole-number units.

Show data on a line plot with a scale that includes whole-number units.

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 26: Measure Length and Plot Data on Line Plots

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Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 27: Measure Length and Plot Data on Line Plots

Geometry

● Mid 2
451

Developmental Analysis

At placement levels K-2 this domain addresses attributes of basic two- and three-dimensional shapes, relationships between shapes, and simple geometric terms. Caleb's score indicates an understanding of halves, thirds, and fourths in circles and rectangles. Caleb may be ready to compare and contrast attributes of solid figures.

Can Do

Combine and separate two-dimensional shapes to create other two-dimensional shapes and predict the results.

Find the total number of square units in a rectangle divided into same-size squares.

Partition circles and rectangles into two, three, or four equal shares and describe the shares or whole using words (*halves, thirds, fourths, two halves, three thirds, four fourths.*)

Identify equal parts of the same whole rectangle partitioned in different ways, using terms such as *halves, thirds, and fourths.*

Next Steps & Resources for Instruction

[Compare and contrast attributes of solid figures including numbers of vertices, faces, and edges.](#)

Compare and contrast attributes of solid figures including numbers of vertices, faces, and edges.


[Review using attributes \(vertices, angles, and sides\) to identify, describe, sort, and classify two-dimensional shapes.](#)

Review using attributes (vertices, angles, and sides) to identify, describe, sort, and classify two-dimensional shapes.

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Tools For Instruction

[Draw and Describe Shapes](#) 

[Tools for Instruction in Spanish \(Grade 2\)](#) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

[Digital access to Ready® through Teacher Toolbox](#)



Grade 2

Lesson 26: Recognize and Draw Shapes

Ready® New York NGLS Math Instruction

Or

[Digital access to Ready® through Teacher Toolbox](#)



Grade 2

Lesson 26: Classify Shapes

Grade 3

Lesson 32: Classify Polygons

Ready® Classroom

Ready® Classroom
Mathematics

Grade 2

Lesson 28: Recognize and Draw Shapes

Identify squares, rectangles, parallelograms, rhombuses, and trapezoids, and recognize them as examples of quadrilaterals. Identify quadrilaterals that do not belong to any of these subcategories.

Identify squares, rectangles, parallelograms, rhombuses, and trapezoids, and recognize them as examples of quadrilaterals. Identify quadrilaterals that do not belong to any of these subcategories.


Tools For Instruction

[Categories of Plane Figures](#) 

Curriculum Associates

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Categories of Shapes 

Tools for Instruction in Spanish (Grade 2) 

Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 31: Understand Properties of Shapes

Lesson 32: Classify Quadrilaterals

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 32: Classify Polygons

Ready® Classroom


Grade 3

Lesson 30: Understand Categories of Shapes


Lesson 31: Classify Quadrilaterals

Describe areas of equal parts of a shape using unit fractions.

Describe areas of equal parts of a shape using unit fractions.

Tools For Instruction

Partitioning Shapes 

Tools for Instruction in Spanish (Grade 2) 

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Additional Resources

Ready® New York CCLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 33: Divide Shapes into Parts with Equal Areas

Ready® New York NGLS Math Instruction

Or

Digital access to Ready® through Teacher Toolbox



Grade 3

Lesson 33: Divide Shapes Into Parts With Equal Areas

Ready® Classroom


Grade 3

Lesson 33: Partition Shapes into Parts with Equal Areas

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