

School LEARN@HOME
Subject Math
Student Sample Student
Student ID samplestudent
Student Grade 2
Placement Definition Standard View
Diagnostic Diagnostic 1
 (12/22/20)

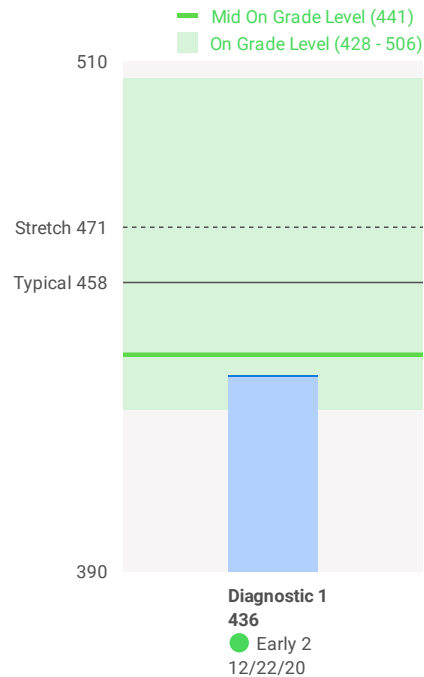
Diagnostic 1

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

● Early 2 (436)
Standard Error +/- 6

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

National Norm and Quantile® Performance

National Norm
 (Updated 2020):
 74th Percentile

Quantile Measure: 475Q
Quantile Range: 425Q-525Q

[Understanding Quantile measures](#)

Placement by Domain

Test results indicate Kylie has good quantitative reasoning skills but would benefit from review of various prior grade level skills related to visual representation and spatial reasoning. Instruction in these areas should take advantage of Kylie's strength with counting patterns and addition and subtraction concepts. This priority places Kylie in Instructional Grouping Profile 4.

School	LEARN@HOME
Subject	Math
Student	Kylie Leung
Student ID	kylieleung
Student Grade	2
Placement Definition	Standard View
Diagnostic	Diagnostic 1 (12/22/20)

Number and Operations

● Mid 2
443

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 Kylie has an appropriate understanding of adding and subtracting, and may be ready to apply place-value concepts to adding and subtracting with regrouping.

Can Do

Base Ten

Read and write whole numbers through hundreds using number words, standard form, and expanded form.
Model three-digit numbers.
Identify the value of the digits in three-digit numbers.
Compare and order three-digit numbers.
Identify a number that is greater than or less than a given number.
Subtract a one-digit number from a two-digit number.
Count and group by 2s, 5s, and 10s to 100.


Next Steps & Resources for Instruction

Base Ten

[Review adding two-digit numbers with regrouping using models.](#)

Review adding two-digit numbers with regrouping using models.

Tools For Instruction

Two-Digit Addition with Regrouping 

Tools for Instruction in Spanish (Grade 2) 


[Review adding two-digit numbers with regrouping.](#)

Curriculum Associates

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Review adding two-digit numbers with regrouping.

Tools For Instruction

Two-Digit Addition with Regrouping 

Tools for Instruction in Spanish (Grade 2) 

Subtract two-digit numbers with regrouping using models.

Subtract two-digit numbers with regrouping using models.

Tools For Instruction

Two-Digit Subtraction 

Tools for Instruction in Spanish (Grade 2) 

Subtract two-digit numbers with regrouping.

Subtract two-digit numbers with regrouping.

Tools For Instruction

Two-Digit Subtraction with Regrouping 

Two-Digit Subtraction 

Tools for Instruction in Spanish (Grade 2) 

Add three or four two-digit numbers with regrouping.

Add three or four two-digit numbers with regrouping.

Tools For Instruction

Add up to Four Two-Digit Numbers 

Tools for Instruction in Spanish (Grade 2) 

Explain why addition and subtraction strategies work using place value and the properties of operations.

Explain why addition and subtraction strategies work using place value and the properties of operations.

Add within 1000 using models or drawings and strategies based on place value, such as decomposing and composing tens and hundreds, the properties of operations, and/or the relationship between addition and subtraction.

Add within 1000 using models or drawings and strategies based on place value, such as decomposing and composing tens and hundreds, the properties of operations, and/or the relationship between addition and subtraction.

Tools For Instruction

Add Three-Digit Numbers 

Tools for Instruction in Spanish (Grade 2) 

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Subtract within 1000 using models or drawings and strategies based on place value, such as decomposing and composing tens and hundreds, the properties of operations, and/or the relationship between addition and subtraction.

Subtract within 1000 using models or drawings and strategies based on place value, such as decomposing and composing tens and hundreds, the properties of operations, and/or the relationship between addition and subtraction.

Tools For Instruction

Subtract Three-Digit Numbers 

Tools for Instruction in Spanish (Grade 2) 

Algebra and Algebraic Thinking

● Mid 2
439

Developmental Analysis

At placement levels K-2 this domain addresses skip-counting, fact families, and using equations to solve addition and subtraction problems. Kylie's score indicates an appropriate understanding of addition and subtraction concepts applied to solving problems. Kylie 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.

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Tools For Instruction

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) 

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) 

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) 

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.

Tools For Instruction

Multiplication Facts with 3, 4, and 6 

Multiplication Facts with 7, 8, and 9 

Tools for Instruction in Spanish (Grade 2) 

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

● Grade 1
424

Developmental Analysis

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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. Results indicate Kylie may benefit from additional practice with measuring length with non-standard units and telling time.

Can Do

Measurement

Directly compare the length of two objects and describe the difference (longer, taller, shorter, thicker).

Identify measurable attributes of objects using informal language (how long, wide, thick, deep, short or tall they are, or how much they weigh or hold).

Compare measures of familiar objects.

Order three objects by length; compare the lengths of two objects indirectly by using a third object.

Next Steps & Resources for Instruction

Measurement

Sort objects according to one or more attributes.

Sort objects according to one or more attributes.

Tools For Instruction

Sorting in Two Ways 

Sort Objects 

Tools for Instruction in Spanish (Grade 1) 

Describe how objects may be measured or categorized.

Describe how objects may be measured or categorized.

Tell time to the hour and half hour on an analog clock or a digital clock.

Tell time to the hour and half hour on an analog clock or a digital clock.

Tools For Instruction

Telling Time to the Hour and Half Hour 

Tools for Instruction in Spanish (Grade 1) 

Express length using whole number non-standard units.

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Express length using whole number non-standard units.

Tools For Instruction

Measuring Length 


Measuring Length 

Tools for Instruction in Spanish (Grade 1) 

Use a ruler to measure length in inches.

Use a ruler to measure length in inches.

Tools For Instruction

Measure in Inches and Centimeters 

Tools for Instruction in Spanish (Grade 1) 

Data

Organize, represent, and interpret several categories of data in a picture or bar graph with up to 3 categories.

Organize, represent, and interpret several categories of data in a picture or bar graph with up to 3 categories.

Tools For Instruction

Representing Data: Tally Charts 

Tools for Instruction in Spanish (Grade 1) 

Geometry

- Mid 2
436

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. Kylie's score indicates an understanding of halves, thirds, and fourths in circles and rectangles. Kylie 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.

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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.

Tools For Instruction

Draw and Describe Shapes 


Tools for Instruction in Spanish (Grade 2) 


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 

Categories of Shapes 

Tools for Instruction in Spanish (Grade 2) 

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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