

Student Profile Report

Julie Milke – Grade 7 – Mathematics Class
Subject: Mathematics

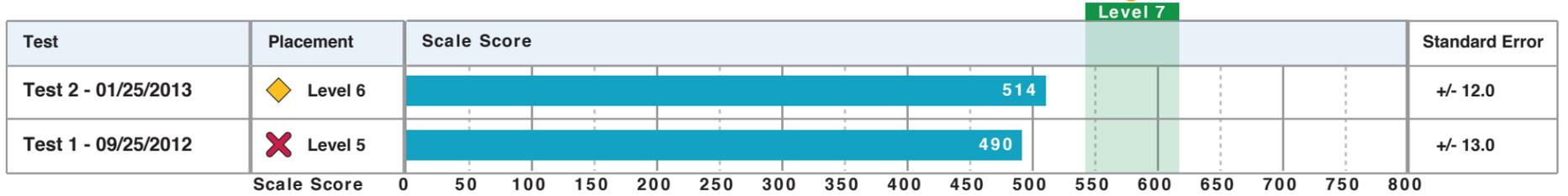
Describes the academic needs of each student based on her performance on the Diagnostic and provides customized instructional support to maximize growth.

Click on a tab to see more detailed information in that domain.



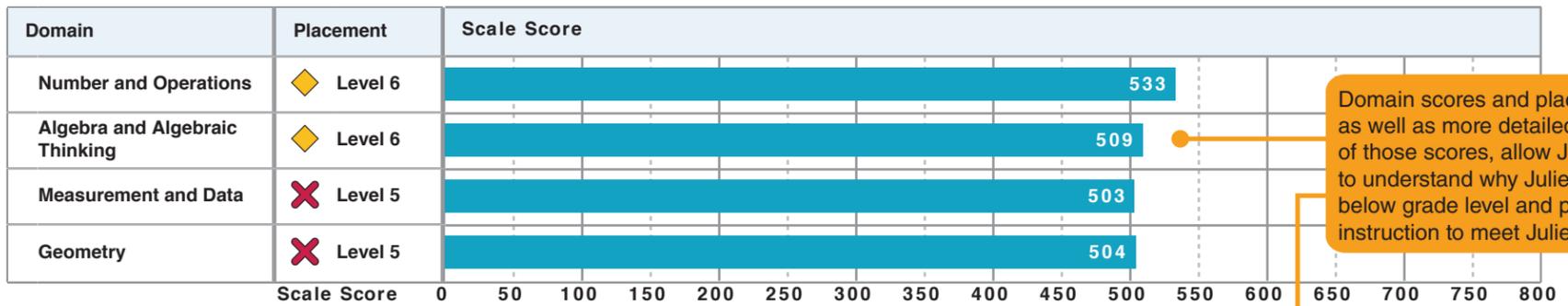
Overall Performance

✓ On or Above Level ◆ < 1 Level Below ✗ > 1 Level Below



High level comparison between assessments allows for quick growth measurement. Here, Julie is steadily working toward being on grade level after growing a full level in 4 months!

Detail for Test 2 - 1/25/2013



Domain scores and placement levels, as well as more detailed explanations of those scores, allow Julie's teacher to understand why Julie is performing below grade level and prioritize instruction to meet Julie's needs.

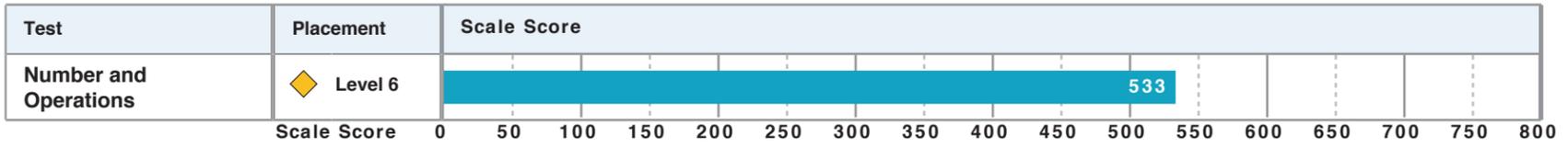
	Placement	Developmental Analysis
Overall Math Performance	◆ Level 6	Test results indicate that Julie would benefit from review of various prior grade level skills and concepts related to quantitative reasoning and representation. Instruction that connects understanding of algebraic representation, computation, and problem solving skills will strengthen Julie's math abilities across domains. This priority places Julie in Instructional Grouping Profile 2.
Number and Operations	◆ Level 6	At levels 6-8 this domain addresses operations with whole numbers, fractions, decimals, and positive and negative rational numbers, as well as exponents. Test results indicate that Julie may benefit from practice with percent and ratio concepts and division with whole numbers, fractions, and decimals.
Algebra and Algebraic Thinking	◆ Level 6	At levels 6-8, this domain addresses ratios and proportional relationships, expressions, equations and inequalities, and functions. Test results indicate that Julie needs to develop a deeper understanding of expressions and equations and practice using them to solve multi-step problems.
Measurement and Data	✗ Level 5	At levels 3-5 this domain addresses the relationship among measurement units, geometric measurement concepts, and presenting and interpreting data on line plots and bar graphs. Results indicate Julie may benefit from review of a wide variety of measurement skills related to unit conversions, volume, angles, and data skills related to graphing and analyzing graphs.
Geometry	✗ Level 5	At levels 3-5 this domain addresses angles and perpendicular and parallel lines, classification of two-dimensional figures, line symmetry and plotting points on the coordinate plane. Test results indicate that Julie may benefit from practice using properties to classify two-dimensional figures into categories and using formulas to find area and volume.

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Building Number and Operations Skills

Number and Operations in grades K-8 focuses on representing, comparing, and performing operations with numbers. As in the CCSS, this domain includes whole numbers, decimals, fractions, integers, and irrational numbers, and emphasizes both conceptual understanding and computation. In grades 6-8, students develop an understanding of proportional relationships. They learn about rational and irrational numbers and compute with rational numbers.

What Julie Can Do

Results indicate that Julie can likely do the skills shown below.

Base Ten

- Multiply three-digit numbers by one-digit numbers.
- Divide up to three-digit numbers by one-digit numbers.
- Read and write decimals to thousandths in standard form, word form, and expanded form.
- Compare two decimals through thousandths.
- Multiply decimal numbers through hundredths.

Fractions

- Express fractions with denominators of 10 or 100 as decimals.
- Decompose a fraction into a sum of fractions with like denominators.
- Multiply fractions.

The Number System

- Express fractions as percents and percents as fractions.
- Locate and plot points on a coordinate plane in all four quadrants.

Next Steps for Instruction

Results indicate that Julie will benefit from instruction and practice in the skills shown below.

Base Ten

- Multiply multi-digit decimals.
- Divide multi-digit whole numbers.
- Divide multi-digit decimals.

Provides a detailed instructional action plan to support Julie's teacher in interpreting the Diagnostic results and to take the guesswork out of individualizing instruction.

Fractions

- Add and subtract fractions and mixed numbers with unlike denominators.
- Multiply a whole number by a fraction.
- Divide fractions.

The Number System

- Use the distributive property to write a sum of two numbers as a product of the greatest common factor of the two numbers and a sum of two different numbers.
- Find the least common multiple of two whole numbers through 12.
- Express decimals as percents and percents as decimals.
- Write a ratio to describe the relationship between two quantities using the forms $a:b$ and a/b .
- Represent and compare positive and negative rational numbers as points on the number line.
- Understand absolute value and interpret it in the context of a real-world situation.

Tools for Instruction

Indicates CC standards on which Julie has demonstrated proficiency. Great to use for parent conferences and to motivate learners who may not often feel successful in school.

Links to immediately downloadable Tools for Instruction. These lesson plans provide best-practice instruction on the exact same skills Julie needs to work on next, as determined by the Diagnostic.

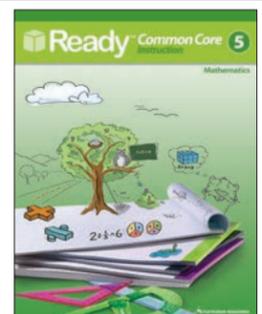
Divide Multi-Digit Whole Numbers (1 of 10)	Divide Multi-Digit Decimals (2 of 10)	Add and Subtract Unlike Fractions and Mixed Numbers (3 of 10)	Multiply a Whole Number and a Fraction (4 of 10)
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Recommended Products from Curriculum Associates

If you have this product...	Use...
Ready Common Core Math Instruction	<p>Grade 5 Lesson 10: Add and Subtract Fractions Lesson 13: Understand Products of Fractions</p> <p>Grade 6 Lesson 1: Ratios Lesson 5: Solve Problems with Percents Lesson 6: Understand Division with Fractions Lesson 7: Divide with Fractions Lesson 8: Divide Whole Numbers Lesson 10: Multiply and Divide Decimals Lesson 11: Common Factors and Multiples Lesson 12: Understand Positive and Negative Numbers Lesson 13: Absolute Value and Ordering Numbers</p>

Saves teachers the hours of time needed to search for content to differentiate instruction for students performing at a variety of levels.

Recommends specific lessons in print resources that target Julie's areas of need.



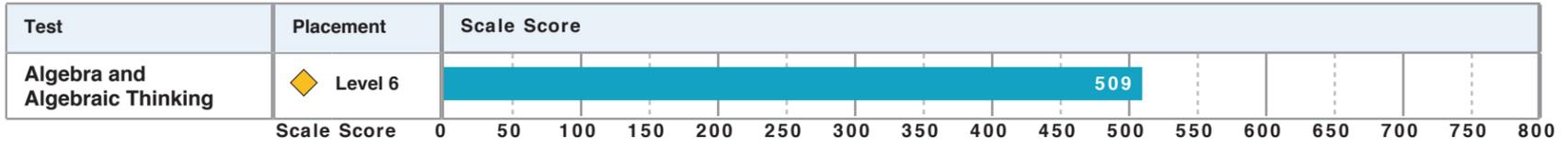
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Overview	Number and Operations	Algebra and Algebraic Thinking	Measurement and Data	Geometry
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Building Algebra and Algebraic Thinking Skills

Algebra and Algebraic Thinking in grades K-8 focuses on the relationships between numbers, the meaning of operations, and the relationships between operations. As in the CCSS, this includes using the appropriate operations to solve real world and mathematical problems.

In grades 6-8, students work with algebraic relationships using ratios, equations, inequalities, functions, tables, and graphs. They use equations and inequalities to solve problems and represent the solutions numerically and graphically.

What Julie Can Do

Results indicate that Julie can likely do the skills shown below.

Operations and Algebraic Thinking

- CC Know multiplication/division fact families.

- CC Identify multiples of whole numbers with products to 100.

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

- CC Describe, extend, analyze, and make generalizations about numeric patterns.

Expressions and Equations

- CC Evaluate expressions for given values of the variables.

- CC Use substitution to determine whether a solution to an equation is true.

Next Steps for Instruction

Results indicate that Julie will benefit from instruction and practice in the skills shown below.

Expressions and Equations

- Write and evaluate expressions with grouping symbols.

- Write and evaluate numerical expressions with whole-number exponents.

- Read, write, and identify variable expressions using mathematical terms (sum, term, product, factor, quotient, coefficient).

- Write an equation in two variables for a real-world problem in which a dependent and independent variable change in relationship to one another.

- Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$, where p , q , and x are all nonnegative rational numbers.

Use substitution to determine whether a solution to an inequality is true.

Ratios and Proportional Relationships

- Use proportions to solve real-world and mathematical problems.

- Solve problems involving unit rate.

- Solve problems using ratio and rate reasoning.

Tools for Instruction



Write and Evaluate Expressions with Grouping Symbols

(1 of 7)



Evaluating Expressions Containing Exponents

(2 of 7)



Use Mathematical Vocabulary

(3 of 7)

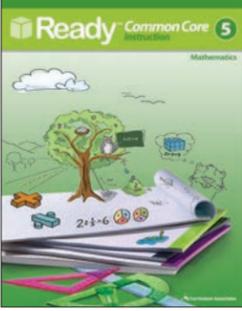


Solving Equations

(4 of 7)

Recommended Products from Curriculum Associates

If you have this product...	Use...
Ready Common Core Math Instruction	<p>Grade 5 Lesson 19: Evaluate and Write Expressions</p> <p>Grade 6 Lesson 2: Understand Unit Rate Lesson 3: Equivalent Ratios Lesson 4: Solve Problems with Unit Rates Lesson 5: Solve Problems with Percents Lesson 15: Numeric Expressions Lesson 16: Algebraic Expressions Lesson 19: Solve Equations Lesson 20: Solve Inequalities Lesson 21: Dependent and Independent Variables</p>



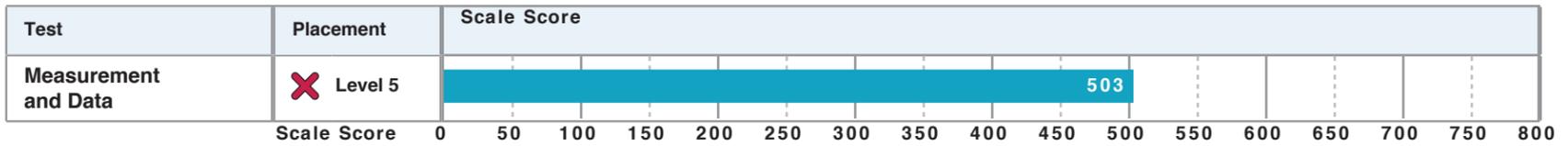
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Building Measurement and Data Skills

Measurement and Data in grades K-8 focuses on measurement tools and units, as well as data. As in the CCSS, physical measurement activities lead to the development of formulas for geometric measurements. Data skills include graphing, analysis, and in later grades, statistics and probability.

In grades 3-5, students study concepts of area, perimeter, and volume and use this understanding to develop formulas. They learn about the relationship among units of measure to solve problems involving liquid volume, mass, time, and money. They present data on line plots and line graphs.

In grades 6-8, students use reasoning and formulas to solve measurement problems involving area, surface area, and volume. They use statistical measures to analyze data and calculate probabilities.

What Julie Can Do

Results indicate that Julie can likely do the skills shown below.

Measurement

- CC Use a ruler to measure length in inches.
- CC Choose the best unit to measure length: inches, feet, or yards.
- CC Solve problems involving counting dollar bills and coins, and use the dollar symbol.
- CC Cover a plane figure with unit squares, and count squares to measure area.
- CC Use side lengths to solve problems involving perimeter.

Data

- CC Construct and interpret scaled bar graphs and scaled picture graphs.

Next Steps for Instruction

Results indicate that Julie will benefit from instruction and practice in the skills shown below.

Measurement

- Convert and compare customary units of weight and metric units of mass involving whole-number measures.
- Convert and compare customary and metric units of capacity involving whole-number measures.
- Solve multi-step, real-world problems involving conversion among measurement units within a system.
- Use formulas to find the area of rectangles and squares.
- Use formulas to find the volume of cubes and rectangular prisms.
- Measure angles using a virtual protractor.

Data and Statistics

- Construct and interpret a line plot using data in fractional units.
- Find, use, and interpret mean, median, mode, range, and maximum and minimum.

Tools for Instruction

Find Equivalent Measurements

(1 of 4)

Volume Concepts

(2 of 4)

Use Volume to Solve Problems

(3 of 4)

Solve Problems with Fractional Data

(4 of 4)

Recommended Products from Curriculum Associates

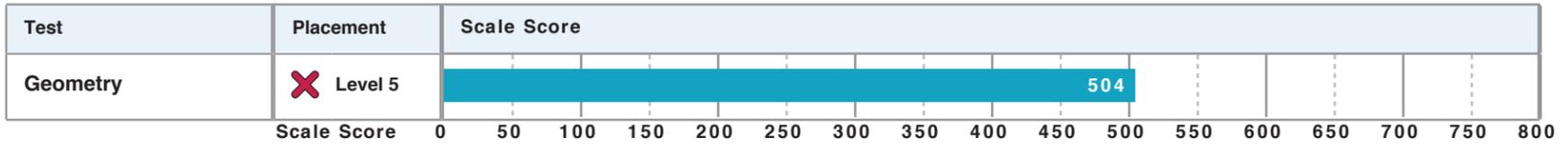
If you have this product...	Use...
Ready Common Core Math Instruction	<p>Grade 4 Lesson 26: Perimeter and Area Lesson 29: Measure and Draw Angles</p> <p>Grade 5 Lesson 21: Convert Measurement Units Lesson 22: Solve Word Problems Involving Conversions Lesson 23: Make Line Plots and Interpret Data Lesson 24: Understand Volume Lesson 25: Find Volume Using Unit Cubes Lesson 26: Find Volume Using Formulas</p> <p>Grade 6 Lesson 27: Measures of Center and Spread Lesson 29: Analyze Numerical Data</p>

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Building Geometry Skills

Geometry in grades K-8 involves describing the attributes and relationships among a growing range of shapes. As in the CCSS, this understanding is then applied to categorizing shapes by attributes.

In grades 3-5, students describe equal parts of shapes with fractions. They use knowledge of angles and perpendicular and parallel lines to classify two-dimensional figures. Students recognize line symmetry in figures and plot points on the coordinate plane.

In grades 6-8, students solve problems involving angle measures, area, surface area, volume, and the Pythagorean theorem. They learn the relationships between two- and three-dimensional figures and study congruence and similarity in transformations of figures.

What Julie Can Do

Results indicate that Julie can likely do the skills shown below.

- cc Sort and classify two-dimensional shapes according to attributes such as vertices, angles, and sides.
- cc Compare and contrast attributes of solid figures including numbers of vertices, faces, and edges.
- cc Describe areas of equal parts of a shape using unit fractions.
- cc Identify acute, obtuse, right, and straight angles and perpendicular and parallel lines.
- cc Identify one or more lines of symmetry in two-dimensional figures and predict and identify reflections of two-dimensional figures.
- cc Locate and plot ordered pairs on a coordinate grid and find the distance between two points with the same x- or y- coordinate.

Next Steps for Instruction

Results indicate that Julie will benefit from instruction and practice in the skills shown below.

- Use formulas to find the area of rectangles and triangles with whole-number side lengths.
- Use formulas to find the volume of rectangular prisms with whole-number edge lengths.
- Classify two-dimensional figures based on their parallel and perpendicular lines or angle measures.
- Use properties to classify two-dimensional figures into categories.
- Use the first quadrant of the coordinate plane to represent and solve real-world and mathematical problems.
- Find the length of a side of a polygon using two points with the same first coordinate or the same second coordinate.

Tools for Instruction

Volume Concepts

(1 of 6)

Use Volume to Solve Problems

(2 of 6)

Attributes of Shapes

(3 of 6)

Subcategories of Plane Figures

(4 of 6)

Recommended Products from Curriculum Associates

If you have this product...	Use...
Ready Common Core Math Instruction	<p>Grade 4 Lesson 32: Classify Two-Dimensional Figures</p> <p>Grade 5 Lesson 29: Graph Points in the Coordinate Plane Lesson 30: Classify Two-Dimensional Figures Lesson 31: Understand Properties of Two-Dimensional Figures</p> <p>Grade 6 Lesson 23: Polygons in the Coordinate Plane</p>

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