How Acadience™ Math Relates to the Common Core State Standards in Mathematics

Acadience Math draws problem types from the Common Core State Standards for Mathematics. However, Acadience Math is a General Outcome Measure (GOM) and not intended to measure every skill on the Standards. For further information on the Common Core State Standards for Mathematics, visit www.corestandards.org/the-standards/mathematics.

Acadience Math Measures Linkage to Common Core State Standards in Mathematics

Kindergarten

Common Core Domain		*Acadience Math Measure*
Counting and Cardinality	Know number names and the count sequence	Next Number Fluency
	Count to tell the number of objects	Beginning Quantity Discrimination
	Compare Numbers	Beginning Quantity Discrimination
Operations and Algebraic Thinking	Understand addition as putting together and adding to, understand subtraction as taking apart and taking from	
Number and Operations in Base Ten	Work with numbers 11–19 to gain foundations for place value	
Measurement and Data	Describe and compare measureable attributes	Beginning Quantity Discrimination
	Classify objects and count the number of objects in each category	Beginning Quantity Discrimination
Geometry	Identify and describe shapes	
	Analyze, compare, create, and compose shapes	
		Number Identification

Acadience Math Measures Linkage to Common Core State Standards in Mathematics

First Grade

Common Core Domain		*Acadience Math Measure*
Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction	
	Understand and apply properties of operations and the relationship between addition and subtraction	Computation
	Add and subtract within 20	Computation
	Work with addition and subtraction equations	
Number and Operations in Base Ten	Extend the counting sequence	Next Number Fluency, Number Identification
	Understand place value	Advanced Quantity Discrimination
	Use place value understanding and properties of operations to add and subtract	Computation Missing Number Fluency
Measurement and Data	Measure lengths indirectly and by iterating length units	
	Tell and write time	
	Represent and interpret data	
Geometry	Reason with shapes and their attributes	

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Second Grade

Common Core Domain		*Acadience Math Measure*
Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction	Concepts and Applications
	Add and subtract within 20	Computation
	Work with equal groups of objects to gain foundations for multiplication	Concepts and Applications
Number and Operations in Base Ten	Understand place value	Concepts and Applications
	Use place value understanding and properties of operations to add and subtract	Computation
Measurement and Data	Measure and estimate lengths in standard units	Concepts and Applications
	Relate addition and subtraction to length	Concepts and Applications
	Work with time and money	Concepts and Applications
	Represent and interpret data	
Geometry	Reason with shapes and their attributes	Concepts and Applications

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Third Grade

Common Core Domain		*Acadience Math Measure*
Operations and Algebraic Thinking	Represent and solve problems involving multiplication and division	Concepts and Applications
	Understand properties of multiplication and the relationship between multiplication and division	Computation Concepts and Applications
	Multiply and divide within 100	Computation
	Solve problems involving the four operations, and identify and explain patterns in arithmetic	Concepts and Applications
Number and Operations in Base Ten	Use place value understanding and properties of operations to perform multi-digit arithmetic	Computation Concepts and Applications
Number and Operations–Fractions	Develop understanding of fractions as numbers	Concepts and Applications
Measurement and Data	Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects	Concepts and Applications
	Represent and interpret data	Concepts and Applications
	Geometric measurement: understand concepts of area and relate area to multiplication and to addition	Concepts and Applications
	Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures	Concepts and Applications
Geometry	Reason with shapes and their attributes	Concepts and Applications

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Fourth Grade

Common Core Domain		*Acadience Math Measure*
Operations and Algebraic Thinking	Use the four operations with whole numbers to solve problems	Concepts and Applications
	Gain familiarity with factors and multiples	Concepts and Applications
	Generate and analyze patterns	
Number and Operations in Base Ten	Generalize place value understanding for multi-digit whole numbers	Concepts and Applications
	Use place value understanding and properties of operations to perform multi-digit arithmetic	Computation
Number and Operations–Fractions	Extend understanding of fraction equivalence and ordering	Concepts and Applications
	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers	Computation Concepts and Applications
	Understand decimal notation for fractions, and compare decimal fractions	Concepts and Applications
Measurement and Data	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit	Concepts and Applications
	Represent and interpret data	Concepts and Applications
	Geometric measurement: understand concepts of angle and measure angles	
Geometry	Draw and identify lines and angles, and classify shapes by properties of their lines and angles	Concepts and Applications

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Fifth Grade

Common Core Domain		*Acadience Math Measure*
Operations and Algebraic Thinking	Write and interpret numerical expressions	Concepts and Applications
	Analyze patterns and relationships	Concepts and Applications
Number and Operations in Base Ten	Understand the place value system	Concepts and Applications
	Perform operations with multi-digit whole numbers and with decimals to hundredths	Computation Concepts and Applications
Number and Operations–Fractions	Use equivalent fractions as a strategy to add and subtract fractions	Computation Concepts and Applications
	Apply and extend previous understandings of multiplication and division to multiply and divide fractions	Concepts and Applications
Measurement and Data	Convert like measurement units within a given measurement system	Concepts and Applications
	Represent and interpret data	
	Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition	Concepts and Applications
Geometry	Graph points on the coordinate plane to solve real-world and mathematical problems	Concepts and Applications
	Classify two-dimensional figures into categories based on their properties	Concepts and Applications

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Sixth Grade

Common Core Domain		*Acadience Math Measure*
Ratios and Proportional Relationships	Understand ratio concepts and use ratio reasoning to solve problems	Concepts and Applications
The Number System	Apply and extend previous understandings of multiplication and division to divide fractions by fractions	
	Compute fluently with multi-digit numbers and find common factors and multiples	Computation Concepts and Applications
	Apply and extend previous understandings of numbers to the system of rational numbers	Concepts and Applications
Expressions and Equations	Apply and extend previous understandings of arithmetic to algebraic expressions	Concepts and Applications
	Reason about and solve one-variable equations and inequalities	Concepts and Applications
	Represent and analyze quantitative relationships between dependent and independent variables	Concepts and Applications
Geometry	Solve real-world and mathematical problems involving area, surface area, and volume	Concepts and Applications
Statistics and Probability	Develop understanding of statistical variability	Concepts and Applications
	Summarize and describe distributions	Concepts and Applications