Learning Continuum - Test View

MAP: Math 2-5 Common Core 2010 V2

Print

Goal: **Operations and Algebraic Thinking**

Sub-goal: Represent and Solve Problems

161-170	171-180	181-190
Reinforce these skills & concepts	**Develop** these skills & concepts	**Introduce** these skills & concepts
Number Sentences/Equations/Equivalence		
• Decomposes whole numbers within 10 in more than one way • Determines start or change unknown in subtraction equations with whole numbers within 20 • Determines unknown parts in addition equations with whole numbers, sums within 20	• Decomposes whole numbers within 10 in more than one way • Determines start or change unknown in subtraction equations with whole numbers within 20 • Determines unknown factors in multiplication equations with whole numbers and products within 100 • Determines unknown parts in addition equations with whole numbers, sums within 20	• Decomposes whole numbers within 10 in more than one way • Determines start or change unknown in subtraction equations with whole numbers within 20 • Determines unknown factors in multiplication equations with whole numbers and products within 100 • Determines unknown parts in addition equations with whole numbers, sums within 20 • Represents division equations with whole numbers as part-unknown multiplication equations • Represents subtraction equations with whole numbers as part-unknown addition equations
Numerical Expressions		
	• Evaluates numerical expressions involving addition and subtraction with	• Evaluates numerical expressions involving addition and subtraction with

	whole numbers and parentheses	whole numbers and parentheses
Properties and Relationships of Operations		
	• Applies the commutative property of multiplication to whole numbers • Identifies the missing equation in whole-number addition or subtraction fact families • Understands the inverse relationship between addition and subtraction	• Identifies the missing equation in whole-number addition or subtraction fact families • Represents division equations with whole numbers as part-unknown multiplication equations • Represents multiplication as repeated addition • Represents subtraction equations with whole numbers as part-unknown addition equations • Understands the inverse relationship between addition and subtraction
Whole Numbers and Decimals: Rounding/Estimation		
	• Estimates solutions to multi-step word problems involving the four operations with whole numbers	• Estimates solutions to multi-step word problems involving the four operations with whole numbers
Whole Numbers: Addition/Subtraction		
• Adds three or more whole numbers with sums within 20 • Adds whole numbers with sums within 20 • Subtracts whole numbers within 20	• Adds three or more whole numbers with sums within 20 • Subtracts whole numbers within 20	• Adds three or more whole numbers with sums within 20
Whole Numbers: Concepts/Properties		
	• Determines if sets of objects are even or odd	• Determines if sets of objects are even or odd
Whole Numbers: Multiplication/Division		
• Multiplies basic facts • Represents multiplication using models	• Multiplies basic facts • Represents multiplication using models	• Divides basic facts • Multiplies basic facts • Represents multiplication using models
Whole Numbers: Place Value		
• Decomposes numbers to make 10 as a strategy for addition or subtraction	• Decomposes numbers to make 10 as a strategy for addition or subtraction	• Decomposes numbers to make 10 as a strategy for addition or subtraction
Whole Numbers: Represent and Solve Word Problems		
• Represents addition word problems involving three addends with expressions or equations, whole numbers within 20 • Represents one-step addition and subtraction word problems with expressions or equations, whole numbers within 20 • Represents one-step addition and	• Estimates solutions to multi-step word problems involving the four operations with whole numbers • Represents one-step addition and subtraction word problems with expressions or equations, whole numbers within 20 • Represents one-step addition and subtraction word problems with objects,	• Estimates solutions to multi-step word problems involving the four operations with whole numbers • Represents multi-step word problems with expressions or equations, whole numbers • Represents one-step addition and subtraction word problems with

subtraction word problems with objects, whole numbers within 20 • Solves one-step put-together word problems with result unknown, whole numbers within 100 • Solves one-step put-together word problems with result unknown, whole numbers within 20 • Solves one-step take-apart word problems with result unknown, whole numbers within 20	whole numbers within 20 • Represents one-step equal-groups multiplication and division word problems with models, whole numbers • Solves multi-step addition and subtraction word problems, whole numbers within 100 • Solves one-step additive-comparison word problems, whole numbers within 100 • Solves one-step additive-comparison word problems, whole numbers within 20 • Solves one-step equal-groups division word problems, whole numbers within 100 • Solves one-step equal-groups multiplication word problems, whole numbers with products within 100 • Solves one-step put-together word problems with result unknown, whole numbers within 100 • Solves one-step put-together word problems with result unknown, whole numbers within 20 • Solves one-step put-together word problems with start, change, or part unknown, whole numbers within 20 • Solves one-step take-apart word problems with result unknown, whole numbers within 100 • Solves one-step take-apart word problems with result unknown, whole numbers within 20 • Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 20 • Solves put-together word problems involving three addends, whole numbers within 20	expressions or equations, whole numbers within 20 • Represents one-step equal-groups multiplication and division word problems with models, whole numbers • Represents one-step equal-groups multiplication word problems as expressions or equations, whole numbers • Represents one-step multiplicative-comparison word problems as expressions or equations, whole numbers • Solves multi-step addition and subtraction word problems, whole numbers within 100 • Solves multi-step word problems involving the four operations with whole numbers • Solves one-step additive-comparison word problems, whole numbers within 100 • Solves one-step additive-comparison word problems, whole numbers within 20 • Solves one-step equal-groups division word problems, whole numbers within 100 • Solves one-step equal-groups multiplication word problems, whole numbers with products within 100 • Solves one-step put-together word problems with result unknown, whole numbers within 100 • Solves one-step put-together word problems with result unknown, whole numbers within 20 • Solves one-step put-together word problems with start, change, or part unknown, whole numbers within 100 • Solves one-step put-together word problems with start, change, or part unknown, whole numbers within 20 • Solves one-step take-apart word problems with result unknown, whole numbers within 100 • Solves one-step take-apart word problems with result unknown, whole numbers within 20 • Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 100 • Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 20 • Solves put-together word problems involving three addends, whole numbers within 20

Sub-goal: Analyze Patterns and Relationships

161-170	171-180	181-190
Reinforce these skills & concepts	**Develop** these skills & concepts	**Introduce** these skills & concepts

Goal: **Number and Operations**

Sub-goal: Understand Place Value, Counting, and Cardinality

161-170	171-180	181-190
Reinforce these skills & concepts	**Develop** these skills & concepts	**Introduce** these skills & concepts
Number Sentences/Equations/Equivalence		
	• Composes or decomposes whole numbers to create equivalent expressions	• Composes or decomposes whole numbers to create equivalent expressions
Whole Numbers and Decimals: Rounding/Estimation		
	• Rounds whole numbers within 100	• Rounds whole numbers within 1,000 • Rounds whole numbers within 100
Whole Numbers: Compare/Order		
	• Compares sets of objects within 10 using terms • Compares whole numbers within 1,000 using symbols • Compares whole numbers within 1,000 using terms • Compares whole numbers within 10,000 using symbols • Compares whole numbers within 100 using symbols	• Compares sets of objects within 10 using terms • Compares whole numbers within 1,000 using symbols • Compares whole numbers within 10,000 using symbols • Compares whole numbers within 100 using symbols
Whole Numbers: Counting and Cardinality		
• Counts backward by 100s within 1,000 • Counts by 100s within 1,000 • Counts by 10s within 1,000 • Counts by 10s within 100 • Counts by 1s within 1,000 • Counts by 1s within 100 • Represents a given set of grouped objects as a numeral within 100 • Represents a given set of objects as a numeral within 20	• Counts backward by 100s within 1,000 • Counts by 100s within 1,000 • Counts by 10s within 1,000 • Counts by 10s within 100 • Counts by 5s within 100	• Counts backward by 100s within 1,000 • Counts by 100s within 1,000 • Counts by 5s within 100
Whole Numbers: Place Value		
• Reads and writes whole numbers within 1,000 as hundreds, tens, and ones • Reads and writes whole numbers within 1,000 in word form • Reads and writes whole numbers within 100 in word form • Reads and writes whole numbers within 20 in word form • Represents whole numbers within 1,000 with models • Represents whole numbers within 100 with models • Represents whole numbers within 20 with models • Understands the value of a digit in whole numbers within 1,000	• Identifies the number of tens and ones in a model • Reads and writes whole numbers within 1,000 as hundreds, tens, and ones • Reads and writes whole numbers within 1,000 in expanded form • Reads and writes whole numbers within 1,000 in word form • Reads and writes whole numbers within 1,000,000 in word form • Reads and writes whole numbers within 10,000 in expanded form • Reads and writes whole numbers within 10,000 in word form • Reads and writes whole numbers within 100 as tens and ones • Reads and writes whole numbers within	• Identifies the number of tens and ones in a model • Reads and writes whole numbers within 1,000 as hundreds, tens, and ones • Reads and writes whole numbers within 1,000 in expanded form • Reads and writes whole numbers within 1,000 in word form • Reads and writes whole numbers within 1,000,000 in word form • Reads and writes whole numbers within 10,000 in expanded form • Reads and writes whole numbers within 100 as tens and ones • Reads and writes whole numbers within 100,000 in word form • Represents whole numbers within 1,000

	100 in expanded form • Reads and writes whole numbers within 100 in word form • Reads and writes whole numbers within 20 as tens and ones • Represents whole numbers within 1,000 with models • Represents whole numbers within 100 with models • Understands the value of a digit in whole numbers within 1,000 • Understands the value of a digit in whole numbers within 1,000,000	with models • Understands the value of a digit in whole numbers greater than 1,000,000 • Understands the value of a digit in whole numbers within 1,000 • Understands the value of a digit in whole numbers within 1,000,000

Sub-goal: Number and Operations in Base Ten

161-170	171-180	181-190
Reinforce these skills & concepts	**Develop** these skills & concepts	**Introduce** these skills & concepts
Decimals: Addition/Subtraction		
• Adds and subtracts decimals with the same number of digits after the decimal point	• Adds and subtracts decimals with the same number of digits after the decimal point	• Adds and subtracts decimals with the same number of digits after the decimal point
Decimals: Represent and Solve Word Problems		
	• Solves one-step word problems involving addition and subtraction of decimals with the same number of digits after the decimal point, including contexts involving money	• Solves one-step word problems involving addition and subtraction of decimals with the same number of digits after the decimal point, including contexts involving money • Solves one-step word problems involving multiplication of whole numbers and decimals to the hundredths, including contexts involving money
Number Sentences/Equations/Equivalence		
	• Composes or decomposes whole numbers to create equivalent expressions	• Composes or decomposes whole numbers to create equivalent expressions
Properties and Relationships of Operations		
	• Understands the inverse relationship between addition and subtraction	• Understands the inverse relationship between addition and subtraction
Whole Numbers: Addition/Subtraction		
• Adds three or more whole numbers with sums within 100 • Adds whole numbers with sums within 1,000, no regrouping • Adds whole numbers with sums within 100, no regrouping • Adds whole numbers with sums within 100, with regrouping • Subtracts multiples of 10 from multiples of 10 within 100	• Adds three or more whole numbers with sums within 100 • Adds whole numbers with sums greater than 10,000 • Adds whole numbers with sums within 1,000, no regrouping • Adds whole numbers with sums within 1,000, with regrouping • Adds whole numbers with sums within 100 using models	• Adds three or more whole numbers with sums greater than 100 • Adds whole numbers with sums greater than 10,000 • Adds whole numbers with sums within 1,000, with regrouping • Adds whole numbers with sums within 100 using models • Subtracts whole numbers greater than 1,000

	• Adds whole numbers with sums within 100, no regrouping • Adds whole numbers with sums within 100, with regrouping • Identifies a number 10 more than a given number using models • Subtracts multiples of 10 from multiples of 10 within 100 • Subtracts whole numbers within 1,000, no regrouping • Subtracts whole numbers within 100, no regrouping	• Subtracts whole numbers within 1,000, no regrouping • Subtracts whole numbers within 1,000, with regrouping • Subtracts whole numbers within 100 using models • Subtracts whole numbers within 100, no regrouping • Subtracts whole numbers within 100, with regrouping
Whole Numbers: Multiplication/Division		
• Multiplies one-digit whole numbers by multiples of 10 using models		• Multiplies one-digit whole numbers by multiples of 10 • Multiplies one-digit whole numbers by two-digit whole numbers • Multiplies two-digit whole numbers by two-digit whole numbers
Whole Numbers: Place Value		
• Subtracts multiples of 10 from multiples of 10 within 100	• Subtracts multiples of 10 from multiples of 10 within 100	

Sub-goal: Number and Operations - Fractions

161-170 **Reinforce** these skills & concepts	171-180 **Develop** these skills & concepts	181-190 **Introduce** these skills & concepts
Fractions: Addition/Subtraction		
		• Adds and subtracts whole numbers, fractions, and/or mixed numbers with like denominators, no regrouping
Fractions: Compare/Order		
	• Compares fraction models with unlike numerators and denominators using words • Orders fraction models with unlike numerators and/or denominators	• Compares fraction models with like numerators or denominators using words • Compares fraction models with unlike numerators and denominators using words
Fractions: Equivalence		
• Identifies fractions equivalent to whole numbers using area or set models	• Identifies equivalent fraction models • Identifies fractions equivalent to whole numbers using area or set models	• Identifies equivalent fraction models • Identifies fractions equivalent to whole numbers using area or set models
Fractions: Represent/Model		
	• Models non-unit fractions using area models • Models unit fractions using area models	• Models non-unit fractions using area models • Models unit fractions using area models

Goal: **Measurement and Data**

Sub-goal: Geometric Measurement and Problem Solving

161-170	171-180	181-190
Reinforce these skills & concepts	**Develop** these skills & concepts	**Introduce** these skills & concepts
Angle Measurement		
• Measures angles using a protractor	• Measures angles using a protractor	• Compares angle measures to benchmark angles • Measures angles using a protractor • Solves one-step word problems involving angles
Area		
• Determines areas of figures composed of whole unit squares	• Determines areas of figures composed of whole unit squares	• Determines areas of figures composed of whole unit squares
Conversion of Units		
	• Completes simple conversions of units of time	• Completes complex conversions of more than two units of time • Completes simple conversions of customary units of length • Completes simple conversions of units of time
Length		
• Knows the appropriate customary unit or tool to measure length • Measures length, width, or height to the nearest centimeter • Measures length, width, or height to the nearest inch	• Compares lengths of objects using nonstandard units • Knows the appropriate customary unit or tool to measure length • Measures length, width, or height to the nearest half inch	• Completes simple conversions of customary units of length • Knows the appropriate customary unit or tool to measure length • Understands that the measurement of an object will change depending upon the units used to measure it
Money		
• Determines the whole number value of a collection of coins given as pictures	• Determines equivalent coin values • Determines the decimal value of a collection of coins and/or bills by counting on • Determines the whole number value of a collection of coins given as pictures	• Determines equivalent coin values • Determines the decimal value of a collection of coins and/or bills by counting on • Determines the whole number value of a collection of coins given as coin names • Determines the whole number value of a collection of coins given as pictures • Solves money word problems involving coins
Perimeter/Circumference		
	• Determines perimeters of basic polygons with all sides labeled	• Determines perimeters of basic polygons with all sides labeled
Problem Solving with Units		

Problem Solving with Units

• Solves one-step length word problems involving addition or subtraction • Solves one-step money word problems involving whole number addition or subtraction	• Solves elapsed-time word problems across either minutes or hours • Solves one-step length word problems involving addition or subtraction • Solves one-step money word problems involving whole number addition or subtraction	• Solves elapsed-time word problems across either minutes or hours • Solves money word problems involving coins • Solves multi-step money word problems involving whole numbers • Solves one-step capacity word problems involving whole number multiplication or division • Solves one-step length word problems involving addition or subtraction • Solves one-step money word problems involving whole number addition or subtraction • Solves one-step money word problems involving whole number multiplication or division

Time

• Reads analog clocks to the nearest half hour • Reads analog clocks to the nearest hour	• Completes simple conversions of units of time • Reads analog clocks to the nearest five minutes • Reads analog clocks to the nearest half hour • Reads analog clocks to the nearest minute • Solves elapsed-time word problems across either minutes or hours • Understands time interval concepts: quarter to, half past, etc.	• Completes complex conversions of more than two units of time • Completes simple conversions of units of time • Determines elapsed time across either minutes or hours using clocks • Reads analog clocks to the nearest five minutes • Reads analog clocks to the nearest half hour • Reads analog clocks to the nearest minute • Solves elapsed-time word problems across either minutes or hours • Understands A.M. and P.M. • Understands time interval concepts: quarter to, half past, etc.

Sub-goal: Represent and Interpret Data

161-170	171-180	181-190
Reinforce these skills & concepts	**Develop** these skills & concepts	**Introduce** these skills & concepts

Data Analysis

• Adds and subtracts to answer questions about pictographs with single-unit scales • Compares categories in bar graphs with multi-unit scales • Compares categories in bar graphs with single-unit scales • Compares categories in pictographs with multi-unit scales • Compares categories in pictographs with single-unit scales • Reads bar graphs with multi-unit scales to determine how many in a category • Reads bar graphs with single-unit scales to determine how many in a category • Reads data in tables or charts	• Adds and subtracts to answer questions about bar graphs with single-unit scales • Adds and subtracts to answer questions about pictographs with single-unit scales • Compares categories in bar graphs with multi-unit scales • Compares categories in bar graphs with single-unit scales • Compares categories in pictographs with multi-unit scales • Compares categories in pictographs with single-unit scales • Reads bar graphs with multi-unit scales to determine how many in a category • Reads bar graphs with single-unit scales	• Adds and subtracts to answer questions about bar graphs with multi-unit scales • Adds and subtracts to answer questions about bar graphs with single-unit scales • Adds and subtracts to answer questions about pictographs with single-unit scales • Compares categories in bar graphs with multi-unit scales • Compares categories in bar graphs with single-unit scales • Compares categories in pictographs with single-unit scales • Counts sets of objects by category • Reads bar graphs with multi-unit scales to determine how many in a category

• Reads pictographs with single-unit scales to determine how many in a category	to determine how many in a category • Reads data in tables or charts	• Reads bar graphs with single-unit scales to determine how many in a category • Reads data in tables or charts • Reads pictographs with multi-unit scales to determine how many in a category
Data Representation		
• Represents data in bar graphs with multi-unit scales • Represents data in picture graphs with single-unit scales	• Represents data in bar graphs with multi-unit scales • Represents data in bar graphs with single-unit scales • Represents data in picture graphs with single-unit scales	• Represents data in bar graphs with multi-unit scales • Represents data in bar graphs with single-unit scales • Represents data in pictographs with single-unit scales • Represents data in picture graphs with single-unit scales • Represents data in tables or charts

Goal: **Geometry**

Sub-goal: Reason with Shapes, Attributes, & Coordinate Plane

161-170	171-180	181-190
Reinforce these skills & concepts	**Develop** these skills & concepts	**Introduce** these skills & concepts
Angle Measurement		
		• Compares angle measures to benchmark angles
Coordinate Geometry		
	• Plots the coordinates of points in the first quadrant of a coordinate plane	• Interprets points with whole number coordinates in the first quadrant within the given context • Plots the coordinates of points in the first quadrant of a coordinate plane
Fractions: Represent/Model		
• Identifies shapes that are divided into equal parts • Identifies shapes that are divided into fourths • Identifies shapes that are divided into halves • Identifies shapes that are divided into thirds	• Identifies shapes that are divided into equal parts • Identifies shapes that are divided into fourths • Identifies shapes that are divided into halves	• Identifies shapes that are divided into equal parts • Identifies shapes that are divided into fourths
Identification and Classification of 2-D Shapes		
• Classifies shapes as open or closed • Identifies and names nonbasic shapes, such as trapezoids, hexagons, etc. • Identifies and names triangles, squares, rectangles, and circles • Identifies the number of sides or corners of 2-D shapes • Knows definitions of a triangle, a square,	• Classifies 2-D shapes by properties • Composes or decomposes 2-D shapes to form new shapes • Identifies and names nonbasic shapes, such as trapezoids, hexagons, etc. • Identifies and names triangles, squares, rectangles, and circles • Identifies the number of sides or corners	• Classifies 2-D shapes by properties • Classifies shapes as flat/2-D • Composes or decomposes 2-D shapes to form new shapes • Identifies and names nonbasic shapes, such as trapezoids, hexagons, etc. • Identifies the number of sides or corners of 2-D shapes

a rectangle, and a circle	of 2-D shapes • Knows definitions of a triangle, a square, a rectangle, and a circle	• Knows definitions of a triangle, a square, a rectangle, and a circle
Identification and Classification of 3-D Shapes		
• Identifies and names cubes, cones, cylinders, and spheres • Identifies and names the 3-D shape of real-world objects	• Identifies and names cubes, cones, cylinders, and spheres • Identifies and names the 3-D shape of real-world objects • Identifies the number of faces, edges, or vertices for a 3-D object	• Identifies and names cubes, cones, cylinders, and spheres • Identifies and names the 3-D shape of real-world objects • Identifies the number of faces, edges, or vertices for a 3-D object
Points, Lines, Segments, Rays, and Angles		
		• Identifies acute, obtuse, or right angles • Identifies parallel lines involving real-world objects
Spatial Concepts and Symmetry		
• Recognizes lines of symmetry in 2-D figures • Understands location words	• Composes or decomposes 2-D shapes to form new shapes • Identifies 2-D figures which have line symmetry • Recognizes lines of symmetry in 2-D figures • Understands location words	• Composes or decomposes 2-D shapes to form new shapes • Determines the number of lines of symmetry in 2-D figures • Identifies 2-D figures which have line symmetry • Recognizes lines of symmetry in 2-D figures