

**Compass Grade 5 Mathematics**  
**Part A**

Unit 1: Whole Numbers	<b>Whole Numbers without Place Value</b> - Students will use Roman and Greek numerals.	MA5111- Roman and Greek Numerals MA5112- Activity Quiz: Roman and Greek Numerals	Week 1	Math5A_Week1
	<b>Whole Numbers with Place Value</b> - Students will use place value.	56279- The Write Stuff MA5122- Activity Quiz: The Write Stuff MA5123- Expanding Up to Billions MA5124- Activity Quiz: Expanding Up to Billions MA5125- Comparing and Ordering MA5126- Activity Quiz: Comparing and Ordering		
	<b>Estimation</b> - Students will round and estimate whole numbers.	MA5131- Up to 1,000,000,000 MA5132- Activity Quiz: Up to 1,000,000,000 MA5133- Sums and Differences MA5134- Activity Quiz: Sums and Differences MA5135- Evaluating for Reasonableness MA5136- Activity Quiz: Evaluating for Reasonableness		
Unit 2: Operations with Whole Numbers	<b>Addition and Subtraction</b> - Students will add and subtract whole numbers.	MA5211- Addition and Subtraction MA5212- Activity Quiz: Addition and Subtraction	Week 2	Math5A_Week2
	<b>Multiplication</b> - Students will multiply whole numbers.	MA5221- Theory of Multiplication MA5222- Activity Quiz: Theory of Multiplication MA5223- 3 by 2 MA5224- Activity Quiz: 3 by 2 MA5225- Problem Solving with Multiplication MA5226- Activity Quiz: Problem Solving with Multiplication 56282- Now That's a Great Factor MA5228- Activity Quiz: Now That's a Great Factor 56284- The Cookout MA52210 Activity Quiz: The Cookout		

	<b>Exponents</b> - Students will use exponents to solve problem.	56183- The Box Stop MA5232- Activity Quiz: The Box Stop 56280- All Powered Up MA5234- Activity Quiz: All Powered Up OW56280Odyssey Writer: Multiplying by Powers of Ten 56281- The Great Growth MA5236- Activity Quiz: The Great Growth		
	<b>Division</b> - Students will divide to solve problems.	MA5241- 2 Digit Divisors with 3 Digit Dividends MA5242- Activity Quiz: 2 Digit Divisors with 3 Digit Dividends 56287- Party Planning MA5244- Activity Quiz: Party Planning 56285- Waste Not MA5246- Activity Quiz: Waste Not MA5247- Applying Division: Interpreting Remainders MA5248- Activity Quiz: Applying Division: Interpreting Remainders	Week 3	Math5A_Week3
	<b>Order of Operations</b> - Students will use order of operations to solve problems.	56184- The Rockin' Locksmith MA5252- Activity Quiz: The Rockin' Locksmith		
	<b>Prime Numbers</b> - Students will identify prime & factorization.	56283- Prime Time MA5262- Activity Quiz: Prime Time MA5263- Prime Factorization MA5264- Activity Quiz: Prime Factorization	Week 4,5	Math5A_4,5
	<b>Problem Solving</b> - Students will solve real-life problems.	MA5271- Story Problems MA5272- Activity Quiz: Story Problems		
Unit 3: Decimals	<b>Place Value with Decimals</b> - Students will place value of decimals.	MA5311- Read and Write to Thousandths MA5312- Activity Quiz: Read and Write to Thousandths MA5313- Decimals on Number Lines MA5314- Activity Quiz: Decimals on Number Lines 56294- The Great Exchange MA5316- Activity Quiz: The Great Exchange MA5317- Rounding Decimals MA5318- Activity Quiz: Rounding Decimals		
	<b>Adding and Subtracting Decimals</b> - Students will add and subtract decimals.	56295- Sharks and Minnows MA5322- Activity Quiz: Sharks and Minnows MA5323- Estimating Sums and Differences with Decimals MA5324- Activity Quiz: Estimating Sums and Differences with Decimals	Week 6,7	Math5A_Week6,7

	<p><b>Multiplying and Dividing Decimals</b> -</p>	<p>56297- By the Pound MA5332- Activity Quiz: By the Pound MA5333- Dividing Decimals MA5334- Activity Quiz: Dividing Decimals MA5335- Estimating Products and Quotients with Decimals MA5336- Activity Quiz: Estimating Products and Quotients with Decimals</p>		
	<p><b>Percents</b> - Students will multiply and divide decimals.</p>	<p>MA5341- Identifying Percents MA5342- Activity Quiz: Identifying Percents MA5343- Working with Percents MA5344- Activity Quiz: Working with Percents</p>		
Unit 4: Fractions	<p><b>Working with Fractions</b> - Students will compare estimate and simplify fractions as well as find equivalent fractions.</p>	<p>MA5411- Improper Fractions and Mixed Numbers MA5412- Activity Quiz: Improper Fractions and Mixed Numbers 56289- Alarming News MA5414- Activity Quiz: Alarming News MA5415- Simplifying Fractions MA5416- Activity Quiz: Simplifying Fractions MA5417- Equivalent Fractions Learning MA5418- Activity Quiz: Equivalent Fractions MA5419- Comparing Fractions MA54110- Activity Quiz: Comparing Fractions MA54111- Rounding Fractions MA54112 Activity Quiz: Rounding Fractions</p>	Week 8,9	Math5A_Week8,9
	<p><b>Operations</b> - Students will add, subtract, multiply and divide fractions.</p>	<p>MA5421- Add Fractions MA5422- Activity Quiz: Add Fractions MA5423- Subtract Fractions MA5424- Activity Quiz: Subtract Fractions MA5425- Adding Mixed Numbers Learning MA5426- Activity Quiz: Adding Mixed Numbers MA5427- Subtracting Mixed Numbers MA5428- Activity Quiz: Subtracting Mixed Numbers MA5429- Multiply Fractions MA54210- Activity Quiz: Multiply Fractions MA54211- Dividing Fractions MA54212- Activity Quiz: Dividing Fractions MA54213 Estimating Fractions MA54214 Activity Quiz: Estimating Fractions with Products and Quotients</p>		
	<p><b>Relationships</b> - Students will use fractions, decimals and percents.</p>	<p>56292- Match Game MA5432- Activity Quiz: Match Game MA5433- Equivalent to Percents MA5434- Activity Quiz: Equivalent to Percents</p>		
	<p><b>Ratios</b></p>	<p>MA5927- Introduction to Ratios</p>		

	- Students will learn fractions as ratios.	AQMA5927- Activity Quiz: Introduction to Ratios 56298- Keep It in the Family MA5442- Activity Quiz: Keep It in the Family 56299- Still Counting MA5444- Activity Quiz: Still Counting		
<b>Unit 5: Algebra</b>	<b>Patterns</b> - Students will identify algebraic patterns.	MA5511- Integers MA5512- Activity Quiz: Integers MA5513- Generalization MA5514- Activity Quiz: Generalization	Week 11, 12	Math5A_Week11,12
	<b>Algebraic Expressions</b> - Solve addition and subtraction problems involving money.	MA5521- Using Variables MA5522- Activity Quiz: Using Variables MA5523- Patterns in Algebra MA5524- Activity Quiz: Patterns in Algebra MA5525- Solving Equations with Addition MA5526- Activity Quiz: Solving Equations with Addition MA5527- Solving Equations with Subtraction MA5528- Activity Quiz: Solving Equations with Subtraction MA5529- Solving Equations with Multiplication MA55210- Activity Quiz: Solving Equations with Multiplication MA55211- Solving Equations with Division MA55212- Activity Quiz: Solving Equations with Division		
<b>Unit 6A: Practice</b>	<b>Read and Write Numbers</b> - Students will use numeric digits and words to read and write numbers up to the hundred billions.	5302- Tens, Hundreds, Thousands, and More 5303- Create a Number! 5400- Writing Numbers Way Up There! 5403- How Much Is That?	Week 13	Math5A_Week13
	<b>Numbers in Expanded Form</b> - Students will write numbers in expanded form.	5325- Writing Numbers in Expanded Form 5326- Big Numbers!		
	<b>Round to 10's and 100's</b> - Students will round to the nearest ten and the nearest hundred.	5402- Rounding Numbers Up and Down 5405- Up or Down?		
	<b>Greatest Common Factor</b> - Students will determine the greatest common factor of given numbers.	5329- Determining the Greatest Common Factor 5330- Shortcuts to Finding the Greatest Common Factor		
	<b>Prime Numbers</b> - Students will identify prime numbers less than 50.	5333- Building Blocks of Numbers 5334- Identifying Prime Numbers to 50		
	<b>Least Common Multiple</b> - Students will determine the least common multiple of given numbers.	5331- Finding the Lowest Common Multiple 5332- Least Common Multiples	Week 14	Math5A_Week14
	<b>Properties</b> - Students will describe and apply the commutative, associative and distributive properties for multiplication.	56182- A Puzzling Problem 5319- Commutative, Associative, and Distributive Properties		

	(Different notations of multiplication.)	5320- Important Properties Revisited		
	<b>Mental Computation Strategies</b> - Students will demonstrate mental computation strategies for multiplication.	5321- Mental Arithmetic for Multiplication and Division 5322- Do It in Your Head		
	<b>Estimate Products</b> -Students will estimate products of whole numbers	5323- Estimate Products and Quotients 5324- Estimating Products of Whole Numbers		
	<b>Properties of Division</b> - Students will explain rules of division. Students will learn that they cannot divide by 0. Students will learn that any number divided by 1 equals that number.	56286- The Banking Solution		
	<b>Comparing Fractions</b> -Students will use the signs $<$ , $>$ and $=$ to compare fractions with like and unlike denominators.	56288- The Material Girl 5355- Comparing Fractions by Finding the Least Common Denominator 5356- Comparing Fractions		

## Compass Grade 4 Mathematics

### Part B

Unit 6: Measurement	<b>Customary Measurement</b> - Students will apply formulas to customary measurement problems.	MA5611- Customary Length/Tool MA5612- Activity Quiz: Customary Length/Tool MA5613- Customary Weight/Tool MA5614- Activity Quiz: Customary Weight/Tool MA5615- Customary Capacity/Tool MA5616- Activity Quiz: Customary Capacity/Tool MA5617- Customary Temperature/Tool MA5618- Activity Quiz: Customary Temperature/Tool	Week 1	Math5B_Week1
	<b>Metric Measurement</b> - Students will learn how to solve metric measurement problems.	MA5621- KHDBdcm MA5622- Activity Quiz: KHDBdcm MA5623- Length/Tool (Metric) MA5624- Activity Quiz: Length/Tool (Metric) MA5625- Weight/Tool (Metric) MA5626- Activity Quiz: Weight/Tool (Metric) MA5627- Capacity/Tool (Metric) MA5628- Activity Quiz: Capacity/Tool (Metric) MA5629 Temperature/Tool (Metric) MA56210 Activity Quiz: Temperature/Tool (Metric)	Week 2	Math5B_Week2
	<b>Time</b> - Students will solve problems about elapsed time.	56305- Time Flies MA5632- Activity Quiz: Time Flies MA5633- Elapsed Time on Calendars MA5634- Activity Quiz: Elapsed Time on Calendars	Week 3	Math5B_Week3
	<b>Calculating Measurements</b> - Students will learn to calculate measurement.	MA5641- Perimeter of Polygons MA5642- Activity Quiz: Perimeter of Polygons MA5643- Area of 4-sided Shapes MA5644- Activity Quiz: Area of 4-sided Shapes MA5645- Area of Triangles MA5646 Activity Quiz: Area of Triangles MA5647- Volume of Solids MA5648- Activity Quiz: Volume of Solids		

Unit 7: Geometry	<b>Geometric Terms</b> - Students will explore terms in geometry	56273- Coincidentally Close MA5712- Activity Quiz: Coincidentally Close MA5713- Lines MA5714- Activity Quiz: Lines 56263- Radical Ramps MA5716- Activity Quiz: Radical Ramps MA5717- Triangles MA5718- Activity Quiz: Triangles 56260- Flying High MA57110- Activity Quiz: Flying High 56000- On the Q MA57112- Activity Quiz: On the Q	Week 4	Math5B_Week4
	<b>Solid Figures</b> - Three-dimensional figures	MA5721- 3-D Terms MA5722- Activity Quiz: 3-D Terms 56262- Sort it Out MA5724- Activity Quiz: Sort it Out 56261- Medallion Meltdown MA5726 Activity Quiz: Medallion Meltdown	Week 5	Math5B_Week5
	<b>Spatial Reasoning</b> - Students will learn about surface net and scale drawing.	56303- Well Built MA5732- Activity Quiz: Well Built 56302- Nothing but Net MA5734- Activity Quiz: Nothing but Net		
	<b>Measuring Angles</b> - Students will find measurement of angles	MA5741- Identify Measurement of Angles MA5742- Activity Quiz: Identify Measurement of Angles		
	<b>Coordinate Geometry</b> - Students will learn about ordered pairs.	MA5751- Ordered Pairs MA5752- Activity Quiz: Ordered Pairs	Week 6	Math5B_Week6
<b>Transformation and Symmetry</b> - Students will learn about symmetry and transformations	56275- Chic Boutique MA5762- Activity Quiz: Chic Boutique 56301- Mystifying Moves MA5764- Activity Quiz: Mystifying Moves 56304- It's All Relative MA5766- Activity Quiz: It's All Relative 56274- Striking Similarities MA5768- Activity Quiz: Striking Similarities			

<b>Unit 8: Probability</b>	<b>Introduction to Probability</b> - Students will predict using probability.	56266- Fashion Afoot MA5812- Activity Quiz: Fashion Afoot 56267- Fair Play MA5814- Activity Quiz: Fair Play MA5815 Making Predictions MA5816 Activity Quiz: Making Predictions	Week 7,8	Math5B_Week7,8
<b>Unit 9: Data Analysis</b>	<b>Graphs</b> - Students will learn about different kinds of graphs	MA5911- Bar Graph MA5912- Activity Quiz: Bar Graph 56277- Follow the Line MA5914- Activity Quiz: Follow the Line 56312- The Star Report MA5916- Activity Quiz: The Star Report MA5917- Histogram MA5918- Activity Quiz: Histogram MA5919- Venn Diagrams MA59110- Activity Quiz: Venn Diagrams MA59111- Which Type of Graph to Use? MA59112- Activity Quiz: Which Type of Graph to Use? MA59113- Compare and Translate Data MA59114- Activity Quiz: Compare and Translate Data		
	<b>Statistics</b> - Students will learn about mean, median, mode and range.	56314- Crazy Corners MA5922- Activity Quiz: Crazy Corners MA5923- Mean MA5924- Activity Quiz: Mean MA5925- Stem and Leaf Plot MA5926- Activity Quiz: Stem and Leaf Plot		
<b>Unit 10: Practice</b>	<b>Equivalent Fractions</b> - Students will find equivalent fractions and write fractions in simplest form.		Week 9	Math5B_Week9
	<b>Add and Subtract Fractions</b> - Students will Add and subtract fractions with like and unlike denominators, with and without regrouping and express answers in simplest form.			
	<b>Add and Subtract Mixed Numbers</b> - Students will add mixed numbers with like and unlike denominators, with and without regrouping and express answers in simplest form.			
	<b>Fractions and Decimals</b> - Students will write fractions as decimals.			
	<b>Read and Write Decimals</b> - Students will read, write and order decimals to the nearest ten-thousandth.			
	<b>Decimals on a Number Line</b> - Students will read and write decimals on a number line.		Week 10	Math 5B_Week 10



	<b>Comparing Numbers</b> - Students will use $<$ , $>$ and $=$ to compare decimals through thousandths. Students will order decimals through thousands.			
	<b>Round Decimals</b> - Students will round decimals to the nearest tenth, hundredth and thousandth.			
	<b>Estimate Sums and Differences</b> - Students will estimate decimal sums, differences and products by rounding.		Week 11	Math 5B_Week11
	<b>Multiply and Divide by 10</b> - Students will multiply and divide decimals by 10, 100 and 1000. Students will move the decimal point.			
	<b>Fractions, Decimals, and Percents</b> - Students will recognize the percent sign and understand percent as per hundred. Students will express equivalences between fractions, decimals, and percentages and know common equivalencies.			
	<b>Algebraic Expressions</b> - Students will write algebraic expressions from phrases or word problems and substitute given values for variable to find value of expression.			
	<b>Solve Equations with Addition and Subtraction</b> - Students will solve one-step algebraic equations using addition or subtraction. ( $x - 5 = 11$ )		Week 12	Math 5B_Week12
	<b>Solve Equations with Multiplication and Division</b> - Students will solve one-step algebraic equations using multiplication or division. ( $5x = 15$ )			
	<b>Point, Line, Segment, and Ray</b> - Students will identify and draw points, segments, rays and lines.			
	<b>Identify Types of Lines</b> - Students will identify and draw horizontal, vertical, perpendicular, parallel and intersecting lines.			
	<b>Polygons</b> - Students will classify quadrilaterals as parallelograms, trapezoids, rhombi, rectangles and squares.		Week 13	Math 5B_Week13
	<b>Plotting Points</b> - Students will plot points on a coordinate plane using ordered pairs of positive and negative whole numbers.			

	<b>Distance Between Lines</b> - Students will identify the basic characteristics of the coordinate plane. Students will find the distance between a pair of horizontal or vertical lines on a coordinate grid.			
	<b>Translations</b> - Students will transform a figure on a coordinate grid. (translation)			
	<b>Transformations</b> - Students will apply multiple transformations to a plane figure, predict the result and identify the image of a plane figure as the result of a multiple transformation. (Include 90 degree and 180 degree rotations)		Week 14	Math5B_Week14
	<b>Elapsed Time</b> - Students will solve problems about elapsed time			
	<b>Area of Rectangles</b> - Students will use the formula for the area of a rectangle and solve problems involving finding area in a variety of square units.			
	<b>Find the Average</b> - Students will find the average (mean) of a given set of numbers.			