

**Grade 7 Curriculum Map 2018-19**  
**Key: Math in Focus Course 1 (MIF)**

TIME FRAME	UNIT/CONCEPTS	CORE GOALS & SKILLS	PA ELIGIBLE STANDARDS & ASSESSMENTS	Resources	Vocabulary
September  (18 days)	Course 2A Content  Chapter 1: The Real Number System	<p><b>Big Idea:</b> Real numbers are represented as points on an infinite line and are used to count measure, estimate, or approximate quantities.</p> <p>1.1 Representing Real Numbers</p> <ul style="list-style-type: none"> <li>• Find the absolute values of rational numbers</li> <li>• Express numbers in m/n form</li> <li>• Locate rational numbers on the number line</li> </ul> <p>1.2 Writing Rational Numbers as Decimals</p> <ul style="list-style-type: none"> <li>• Write rational numbers as terminating or repeating decimals using long division property</li> <li>• Compare rational numbers on the number line</li> </ul> <p>1.3 Introducing Irrational Numbers</p> <ul style="list-style-type: none"> <li>• Understand irrational numbers and how they fill the number line.</li> <li>• Use rational numbers to locate irrational numbers approximately on the number line</li> </ul> <p>1.4 Introducing the Real Number System</p> <ul style="list-style-type: none"> <li>• Show that irrational numbers are characterized by a nonterminating and nonrepeating decimal representation</li> <li>• Introduce the real number system and the real number line</li> </ul> <p>1.5 Introducing Significant Digits</p> <ul style="list-style-type: none"> <li>• Introduce rules to identify significant digits in a given number</li> <li>• Determine if trailing zeros of an integer are significant</li> <li>• Round integers and decimals to a specified number of significant digits</li> </ul>	<p>CC.2.1.7.E.1 Apply and extend previous understandings of operations with fractions to operations with rational numbers. (M07.A-N.1)</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p><i>Initial Knowledge Check – ALEKS</i>  <i>Chapter 1 Test – Math in Focus</i></p>	<p><b>Recall Prior Knowledge (RPK)</b>  Recognizing types of numbers, comparing decimals rounding numbers, finding squares, cubes and their roots.</p> <p>Chapter 1  Pre-Test  MIF Textbook  A p. 5-51</p> <p>ALEKS and  Quick tables</p>	<p>Opposites  Set of integers  Positive integers  Negative integers  Negative fractions  Rational numbers  Terminating decimals  Repeating decimals  Irrational numbers  Approximate  Real number  Real number line  Significant digits  Precise</p>

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September (22 days)	Chapter 2: Rational Number Operations	<p><b>Big Idea:</b> The operations of addition, subtraction, multiplication, and division can be applied to rational numbers including negative numbers</p> <p>2.1 Adding Numbers</p> <ul style="list-style-type: none"> <li>• Add integers with the same sign</li> <li>• Add integers to their opposites</li> <li>• Add integers with different signs</li> </ul> <p>2.2 Subtracting Integers</p> <ul style="list-style-type: none"> <li>• Subtract integers by adding their opposites</li> <li>• Find the distance between two integers on a number line</li> </ul> <p>2.3 Multiplying and Dividing Integers</p> <ul style="list-style-type: none"> <li>• Multiply and divide integers</li> </ul> <p>2.4 Operations with Integers</p> <ul style="list-style-type: none"> <li>• Use addition, subtraction, multiplication and division with integers</li> </ul> <p>2.5 Operations with Rational Numbers</p> <ul style="list-style-type: none"> <li>• Add and subtract rational numbers</li> <li>• Multiply and divide rational numbers</li> </ul>	<p>CC.2.1.7.E.1 Apply and extend previous understandings of operations with fractions to operations with rational numbers. (M07.A-N.1)</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p> <p><i>Chapter 2 Test – Math in Focus</i>  <i>Chapter 1 -2 Cumulative Review</i></p>	<p><b>RPK:</b>  Comparing numbers on a number line, order of operations, improper fractions and operations with fractions.  p. 53-55</p> <p>Chapter 2 pre-test  MIF Textbook A p. 56-111</p> <p>ALEKS and Quick tables</p>	<p>Additive inverse  Zero pair</p>
October (19 days)	Chapter 3: Algebraic Expressions	<p><b>Big Idea:</b> Algebraic expressions containing rational numbers and several variables can be simplified, expanded, or factored to write equivalent expressions.</p>	<p>CC.2.2.7.B.1 Apply properties of operations to generate equivalent expressions. (M07.B-E.1 &amp;</p>	<p><b>RPK:</b>  Recognizing, simplifying,</p>	

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		<p>3.1 Adding Algebraic Terms</p> <ul style="list-style-type: none"> <li>Represent algebraic expressions using bar models</li> <li>Simplify algebraic expressions with decimals and fractional coefficients by adding like terms</li> </ul> <p>3.2 Subtracting Algebraic Terms</p> <ul style="list-style-type: none"> <li>Simplify algebraic expressions with decimals and fractional coefficients by subtracting like terms</li> </ul> <p>3.3 Simplifying Algebraic Expressions</p> <ul style="list-style-type: none"> <li>Simplify algebraic expressions with more than two terms</li> <li>Simplify algebraic expressions by using the commutative property of addition</li> <li>Simplify algebraic expressions with two variables</li> </ul> <p>3.4 Expanding Algebraic Expressions</p> <ul style="list-style-type: none"> <li>Expand algebraic expressions involving fractions, decimals, and negative factors</li> </ul> <p>3.5 Factoring Algebraic Expressions</p> <ul style="list-style-type: none"> <li>Factor algebraic expressions with two variables</li> <li>Factor algebraic expressions with negative terms</li> </ul> <p>3.6 Writing Algebraic Expressions</p> <ul style="list-style-type: none"> <li>Translate verbal descriptions into algebraic expressions with one or more variables</li> <li>Translate verbal descriptions into algebraic expressions with parentheses</li> </ul> <p>3.7 Real-World Problems: Algebraic Reasoning</p> <ul style="list-style-type: none"> <li>Solve real-world problems using algebraic reasoning</li> </ul>	<p>M07.B-E.2)</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p> <p><i>Chapter 3 Test – Math in Focus</i></p>	<p>and factoring algebraic expressions p. 129</p> <p>Chapter 3 pre-test MIF Textbook A p. 130-187</p> <p>ALEKS and Quick tables</p>	
October-November (13 days)	Chapter 4: Algebraic Equations and Expressions	<p><b>Big Idea:</b> Algebraic expressions and inequalities can be used to model mathematical or real-world situations and to find values of variables.</p> <p>4.1 Understanding Equivalent Equations</p> <ul style="list-style-type: none"> <li>Identify equivalent equations</li> </ul> <p>4.2 Solving Algebraic Equations</p>	<p>CC.2.2.7.B.3 Model and solve real-world and mathematical problems by using and connecting numerical,</p>	<p><b>RPK:</b> Solving and writing algebraic expressions p. 189-191</p>	Equivalent equations

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		<ul style="list-style-type: none"> <li>Solve algebraic equations with variables on the same side of the equation</li> <li>Solve algebraic equations with variables on both sides of the equation</li> <li>Solve algebraic equations in factored form</li> </ul> <p>4.3 Real-World Problems: Algebraic Equations</p> <ul style="list-style-type: none"> <li>Solve Real-World problems algebraically</li> </ul> <p>4.4 Solving Algebraic Inequalities</p> <ul style="list-style-type: none"> <li>Solve algebraic inequalities</li> <li>Graph the solution set of an inequality on a number line</li> <li>Solve multi-step algebraic inequalities</li> </ul> <p>4.5 Real-World Problems: Algebraic Inequalities</p> <ul style="list-style-type: none"> <li>Solve real-world problems involving algebraic inequalities</li> </ul>	<p>algebraic, and/or graphical representations. (M07.B-E.2)</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p> <p><i>Chapter 4 Test – Math in Focus</i></p>	<p>Chapter 4 pre-test MIF Textbook A p. 192-243</p> <p>ALEKS and Quick tables</p>	
November (14 days)	Chapter 5: Direct and Inverse Proportion	<p><b>Big Idea:</b> Two quantities that are in a proportional relationship can be used to solve real-world and mathematical problems.</p> <p>5.1 Understanding Direct Proportion</p> <ul style="list-style-type: none"> <li>Identify direct proportion</li> <li>Recognize that a constant of proportionality can be a constant rate</li> </ul> <p>5.2 Representing Direct Proportion Graphically</p> <ul style="list-style-type: none"> <li>Use a graph to interpret direct proportion</li> </ul> <p>5.3 Solving Direct Proportion Problems</p> <ul style="list-style-type: none"> <li>Solve real-world direct proportion problems</li> </ul> <p>5.4 Understanding Inverse Proportion</p> <ul style="list-style-type: none"> <li>Identify inverse proportion</li> </ul>	<p>CC.2.1.7.D.1 Analyze proportional relationships and use them to model and solve real-world and mathematical problems. (M07.A-R.1.1)</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p>	<p><b>RPK:</b> Comparing quantities with ratios, finding rates and solving percent problems linear equations using a table of values p. 245-247</p>	<p>Proportion Direct proportion Constant of proportionality Cross products Inverse proportion</p>

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		<ul style="list-style-type: none"> <li>• Use a graph to interpret proportion</li> <li>• Solve inverse proportion problems</li> </ul>	<p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.5 Use appropriate tools strategically</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p> <p><i>Chapter 5 Test – Math in Focus</i>  <i>Chapter 3-5 Cumulative Review</i></p>	<p>Chapter 5 pre-test  MIF Textbook A p. 248-297</p> <p>ALEKS and Quick tables</p>	
January (14 days)	Chapter 6: Angle Properties and Straight Lines	<p><b>Big Idea:</b> Angles formed on a straight line, or by parallel lines and a transversal, have special properties that are useful in solving problems.</p> <p>6.1 Complementary, Supplementary, and Adjacent Angles</p> <ul style="list-style-type: none"> <li>• Explore the properties of complementary angles and supplementary angles.</li> <li>• Explore the properties of adjacent angles</li> </ul> <p>6.2 Angles that Share a Vertex</p> <ul style="list-style-type: none"> <li>• Explore and apply the properties of angles at a point</li> <li>• Explore and apply the properties of vertical angles</li> </ul> <p>6.3 Alternate Interior, Alternate Exterior, and Corresponding Angles</p> <ul style="list-style-type: none"> <li>• Identify the types of angles formed by parallel lines and a transversal</li> <li>• Write and solve equations to find unknown</li> </ul>	<p>CC.2.3.7.A.1 Solve real-world and mathematical problems involving angle measure, area, surface area, circumference, and volume. (M07.C-G.2.1 &amp; M07.C-G.2)</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p>	<p><b>RPK:</b>  Classifying angles and identifying parallel and perpendicular lines  p. 3-4</p> <p>Chapter 6 pre-test  MIF Textbook B p. 5-61</p> <p>ALEKS and Quick tables</p>	<p>Complementary angles  Supplementary angles  Adjacent angles  Vertical angles  Congruent angles  Transversal  Alternate interior angles  Alternate exterior angles  Corresponding angles  Interior angles  Exterior angles</p>

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		<p>angle measures in figures.</p> <p><b>6.4 Interior and Exterior Angles</b></p> <ul style="list-style-type: none"> <li>Explore and apply the properties of interior angles of a triangle</li> <li>Explore and apply the properties of the exterior angles of a triangle</li> </ul>	<p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.5 Reason abstractly and quantitatively</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p> <p><i>Chapter 6 Test – Math in Focus</i></p>		
January - February (15 days)	<b>Chapter 7: Geometric Construction</b>	<p><b>Big Idea:</b> Triangles and quadrilaterals can be constructed using a compass, a protractor, and a straight edge.</p> <p><b>7.1 Constructing Angle Bisectors</b></p> <ul style="list-style-type: none"> <li>Understand the meaning of an angle bisector</li> <li>Construct an angle bisector</li> </ul> <p><b>7.2 Constructing Perpendicular Bisectors</b></p> <ul style="list-style-type: none"> <li>Understand the meaning of a perpendicular bisector</li> <li>Construct a perpendicular bisector</li> </ul> <p><b>7.3 Constructing Triangles</b></p> <ul style="list-style-type: none"> <li>Construct a triangle with given measures</li> <li>Determine whether a unique triangle, more than one triangle, or no triangle can be drawn from given side lengths</li> </ul> <p><b>7.4 Constructing Quadrilaterals</b></p> <ul style="list-style-type: none"> <li>Construct a rectangle, square, rhombus, or parallelogram</li> </ul> <p><b>7.5 Understanding Scale Drawings</b></p> <ul style="list-style-type: none"> <li>Identify the scale factor in diagrams</li> </ul>	<p>CC.2.3.7.A.1 Solve real-world and mathematical problems involving angle measure, area, surface area, circumference, and volume. (M07.C-G.2.1 &amp; M07.C-G.2)</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p>	<p><b>RPK:</b> Classifying triangles and using a protractor p.64-68</p> <p>Chapter 7 pre-test MIF Textbook B p. 69-119</p> <p>ALEKS and Quick tables</p>	<p>Protractor Bisector Bisect Equidistant Straightedge Perpendicular bisector Midpoint Included side Included angle Scale Scale factor</p>

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		<ul style="list-style-type: none"> <li>Solve problems involving scale drawings of geometric figures</li> </ul>	<p>CC.K-12.MP.5 Reason abstractly and quantitatively</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p> <p><i>Chapter 7 Test – Math in Focus</i></p>		
March (14 days)	Chapter 8: Volume and Surface Area of Solids	<p><b>Big Idea:</b> Solids such as cones, and spheres are all around you. You can find their surface areas and volumes to solve real-world problems.</p> <p>8.1 Recognizing Cylinders, Cones, Spheres, and Pyramids</p> <ul style="list-style-type: none"> <li>Recognize cylinders, cones, and spheres</li> <li>Identify cross sections of solids</li> </ul> <p>8.2 Finding Volume and Surface Area of Cylinders</p> <ul style="list-style-type: none"> <li>Find the volume and surface area of cylinders</li> <li>Solve real-world problems involving cylinders</li> </ul> <p>8.3 Finding Volume, and Surface Area of Pyramids, and Cones</p> <ul style="list-style-type: none"> <li>Find the volume of pyramids and cones</li> <li>Find the surface area of cones</li> <li>Solve real-world problems involving pyramids involving pyramids and cones</li> </ul> <p>8.4 Finding Volume and Surface Area of Spheres</p> <ul style="list-style-type: none"> <li>Find the volume and surface area of spheres</li> <li>Solve real-world problems involving spheres</li> </ul>	<p>CC.2.3.7.A.1 Solve real-world and mathematical problems involving angle measure, area, surface area, circumference, and volume. (M07.C-G.2.1 &amp; M07.C-G.2)</p> <p>CC.2.3.7.A.2 Visualize and represent geometric figures and describe the relationships between them.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.6 Attend to precision</p>	<p><b>RPK:</b> Applying surface area and volume formulas, finding the area and circumference of a circle p. 121-123</p> <p>Chapter 8 pre-test MIF Textbook B p. 124-177</p> <p>ALEKS and Quick tables</p>	<p>Cylinder Cone Lateral surface Slant height Sphere Hemisphere Plane Cross section Volume Surface area</p>

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			<p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p> <p><i>Chapter 8 Test – Math in Focus Cumulative Review Chapters 6-8</i></p>		
March - April (15 days)	Chapter 9: Statistics	<p><b>Big Idea:</b> Measures of central tendency and measures of variation are used to draw conclusions about populations</p> <p>9.1 Interpreting Quartiles and Interquartile Range</p> <ul style="list-style-type: none"> <li>Introduce the concept of measures of variation</li> <li>Understand and solve problems involving quartiles and interquartile range</li> </ul> <p>9.2 Stem-and-Leaf Plots</p> <ul style="list-style-type: none"> <li>Represent data in a stem-and-leaf plot</li> <li>Make conclusions and solve word problems involving stem-and-leaf plots</li> </ul> <p>9.3 Understanding Box Plots and Mean Absolute Deviation</p> <ul style="list-style-type: none"> <li>Draw and interpret box plots</li> <li>Understand mean absolute deviation</li> <li>Solve problems involving box plots and mean absolute deviation</li> </ul> <p>9.4 Understanding random Sampling Methods</p> <ul style="list-style-type: none"> <li>Understand the concept of a population and samples</li> <li>Understand and apply different random sampling methods</li> <li>Simulate random sampling</li> </ul> <p>9.5 Making Inferences About Populations</p> <ul style="list-style-type: none"> <li>Make and use inferences about a population to estimate its population mean</li> <li>Make comparative inferences about two populations</li> </ul>	<p>CC.2.4.7.B.1 Draw inferences about populations based on random sampling concepts. (M07.D-S.1.1)</p> <p>CC.2.4.7.B.2 Draw informal comparative inferences about two populations. (M07.M-S.2.1)</p> <p>CC.2.4.7.B.3 Investigate chance processes and develop, use, and evaluate probability models.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.5 Reason abstractly and quantitatively</p>	<p><b>RPK:</b> Plotting coordinates p. 179-181</p> <p>Chapter 9 pre-test MIF Textbook B p. 182-239</p> <p>ALEKS and Quick tables</p>	<p>Measure of variation</p> <p>Range</p> <p>First/second/third quartile</p> <p>Lower/upper Quartile</p> <p>Interquartile range</p> <p>Stem-and-leaf plot</p> <p>Stem</p> <p>Leaf</p> <p>Box plot</p> <p>Box-and-whisker plot</p> <p>5 point summary</p> <p>Mean</p> <p>Absolute deviation</p> <p>Population</p> <p>Sample</p> <p>Sample size</p> <p>Random sample</p> <p>Unbiased/biased sample</p> <p>Simple random/stratified</p>

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March (14 days)	Chapter 10: Probability	<p><b>Big Idea:</b> Events happen around you every day some more likely than others. You can use probability to describe how likely and event is to occur</p> <p>10.1 Defining Outcomes, Events, and Sample Space</p> <ul style="list-style-type: none"> <li>Understand the concepts of outcomes, events, and sample space and apply them to everyday life</li> </ul> <p>10.2 Finding Probability of Events</p> <ul style="list-style-type: none"> <li>Find the probability of events</li> <li>Use Venn diagrams to illustrate events and their relationships</li> <li>Solve real-world problems involving probability.</li> </ul> <p>10.3 Approximating Probability and Relative Probability</p> <ul style="list-style-type: none"> <li>Find relative frequencies, interpret them as probabilities, and use them to make predictions</li> <li>Compare relative frequencies to theoretical probability</li> </ul> <p>10.4 Developing Probability Models</p> <ul style="list-style-type: none"> <li>Understand and apply uniform and non-uniform probability models, and use them to make predictions.</li> <li>Compare experimental probability with theoretical probability</li> </ul>	<p>CC.2.1.7.D.1 Analyze proportional relationships and use them to model and solve real-world mathematical problems. ( M07.A-R.1.1)</p> <p>CC.2.4.7.B.3 Investigate chance processes and develop, use, and evaluate probability models</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p> <p><i>Chapter 10 Test – Math in Focus</i></p>	<p><b>RPK:</b> Expressing fractions as percents and decimals p. 241-243</p> <p>Chapter 10 pre-test MIF Textbook B p. 245-303</p> <p>ALEKS and Quick tables</p>	<p>Outcome Sample space Event Probability Fair Biased Venn diagram Mutually exclusive complementary events Complement Relative frequency Observed frequency Experimental probability Theoretical probability Probability model Probability distribution Uniform probability Non-uniform probability model</p>

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