

**Grade 8 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<br><br>(18 days) | Course 3A Content<br><br>Chapter 1:<br>Exponents | <p><b>Big Idea:</b> You can use exponential notation to represent repeated multiplication of the same factor</p> <p>1.1 Exponential Notation</p> <ul style="list-style-type: none"> <li>• Understand and use exponential notation</li> <li>• Use exponents to write the prime factorization of a number</li> </ul> <p>1.2 The product and quotient</p> <ul style="list-style-type: none"> <li>• Understand the product of powers property</li> <li>• Understand the quotient of powers property</li> <li>• Multiply and divide expressions in exponential notation</li> </ul> <p>1.3 The power of a power</p> <ul style="list-style-type: none"> <li>• Understand raising a power to a power</li> <li>• Use properties of exponents to simplify expressions</li> </ul> <p>1.4 The power of a product and the power of a quotient</p> <ul style="list-style-type: none"> <li>• Understand the power of a product property</li> <li>• Understand the power of a quotient property</li> <li>• Use properties of exponents to simplify expressions</li> </ul> <p>1.5 Zero and negative exponents</p> <ul style="list-style-type: none"> <li>• Understand zero and negative exponents</li> <li>• Simplify expressions involving zero and negative exponents</li> </ul> <p>1.6 real-world problems: Squares and cubes</p> | <p>CC.2.1.8.E.4 Estimate irrational numbers by comparing them to rational numbers. (M08.A-N.1.1)</p> <p>CC.2.2.8.B.1 Apply concepts of radicals and integer exponents to generate equivalent expressions</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><b>Recall Prior Knowledge (RPK)</b><br/>Interpreting the real number system and integers p.3 Book A</p> <p>Chapter 1<br/>Pretest<br/>MIF Textbook<br/>A p. 5-57</p> <p>ALEKS and<br/>Quick tables</p> | <p>Exponential notation<br/>Power<br/>Base<br/>Exponent<br/>Prime factorization</p> |

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|                     |                                |   | <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p> <p><i>Initial Knowledge Check – ALEKS</i><br/> <i>Chapter 1 Test – Math in Focus</i></p>   |  |  |
| September (10 days) | Chapter 2: Scientific Notation | <p><b>Big Idea:</b> Scientific notation is a way of writing numbers that makes it easier to work with very large or very small numbers.</p> <p>2.1 Understanding scientific notation</p> <ul style="list-style-type: none"> <li>Understand the need for scientific notation</li> <li>Write numbers in scientific notation or in standard form.</li> <li>Compare numbers in scientific notation</li> </ul> <p>2.2 Adding and subtracting in scientific notation</p> <ul style="list-style-type: none"> <li>Add and subtract numbers in scientific notation.</li> <li>Introduce the prefix system</li> </ul> <p>2.3 Multiplying and dividing in scientific notation</p> <ul style="list-style-type: none"> <li>Multiply and divide numbers in scientific notation</li> <li>Solve real-world problems involving the calculation of numbers in different forms.</li> <li>Use calculators to operate with numbers written in scientific notation.</li> </ul> | <p>CC.2.2.8.B.1 Apply concepts of radicals and integer exponents to generate equivalent expressions. (M08.B-E.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>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><b>RPK:</b><br/>         Multiplying and dividing by positive powers of ten p. 59 Book A</p> <p>Chapter 2 pre-test<br/>         MIF Textbook A p. 60-91</p> <p>ALEKS and Quick tables</p> | <p>Scientific notation<br/>         Coefficient<br/>         Standard form</p> |

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|                                |                                       |  | <i>Chapter 2 Test – Math in Focus</i><br><i>Chapter 1 -2 Cumulative Review</i>  |   |  |
| September-October<br>(10 days) | Chapter 3: Algebraic Linear Equations | <p><b>Big Idea:</b> Linear equations can be used to solve mathematical and real-world problems. A linear equation with one variable can have one solution, no solution, or infinitely many solutions.</p> <p>3.1 Solving Linear Equations with One Variable</p> <ul style="list-style-type: none"> <li>• Solve linear equations with one variable</li> <li>• Solve real-world problems involving linear equations with one variable</li> </ul> <p>3.2 Identifying the Number of Solutions to a Linear equation</p> <ul style="list-style-type: none"> <li>• Understand and identify linear equations with no solution</li> <li>• Understand and identify linear equations with infinitely many solutions</li> </ul> <p>3.3 Understanding Linear Equations with Two Variables</p> <ul style="list-style-type: none"> <li>• Represent a relationship between two variables using a linear equation.</li> <li>• Represent a linear relationship using a table of values</li> </ul> <p>3.4 Solving for a Variable in a Two-Variable Linear Equation</p> <ul style="list-style-type: none"> <li>• Solve for a two-variable linear equation</li> </ul> | <p>CC.2.2.8.B.2 Understand the connections between proportional relationships, lines, and linear equations.</p> <p>CC.2.2.8.B.3 Analyze and solve linear equations and pairs of simultaneous equations.</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 3 Test – Math in Focus</i></p> | <p><b>RPK:</b><br/>Understand equivalent equations and linear equations<br/>p. 95</p> <p>Chapter 3 pretest<br/>MIF Textbook A p. 96-127</p> <p>ALEKS and Quick tables</p> | Inconsistent equation<br>Consistent equation<br>identity |

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| <p>October-<br/>(14 days)</p> | <p>Chapter 4: Lines and Linear Equations</p> | <p><b>Big Idea:</b> the graph of a linear equation in two variables is a line, and you can write the equation of the line in slope-intercept form...</p> <p>4.1 Finding and Interpreting Slopes of Lines</p> <ul style="list-style-type: none"> <li>• Find the slopes of lines</li> </ul> <p>4.2 Understanding Slope-intercept Form</p> <ul style="list-style-type: none"> <li>• Explore the relationship between the lines <math>y = mx</math> and <math>y = mx + b</math></li> </ul> <p>4.3 Writing Linear equations</p> <ul style="list-style-type: none"> <li>• Write an equation of a line in slope-intercept form.</li> <li>• Write an equation of a line parallel to another line</li> </ul> <p>4.4 Sketching Graphs of Linear Equations</p> <ul style="list-style-type: none"> <li>• Understanding graphing linear equations</li> <li>• Sketch a linear graph by using <math>m</math> and <math>b</math></li> <li>• Sketch a linear graph by using <math>m</math> and a point of the line.</li> </ul> <p>4.5 Real-World Problems: Linear Equations</p> <ul style="list-style-type: none"> <li>• Explain slope and y-intercept in the context of real-world problems</li> </ul> | <p>CC.2.2.8.B.2 Understand the connections between proportional relationships, lines, and linear equations. (M08.B-E.3)</p> <p>CC.2.2.8.B.3 Analyze and solve linear equations and pairs of simultaneous linear equations (M08.B-E.3)</p> <p>CC.2.4.8.B.1 Analyze and/or interpret bivariate data displayed in multiple representations. (M08.D-S.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>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><b>RPK:</b><br/>Interpreting direct proportion<br/>p. 130 Book A</p> <p>Chapter 4 pre-test<br/>MIF Textbook A p. 130-189</p> <p>ALEKS and Quick tables</p> | <p>Slope<br/>Rise<br/>Run<br/>y-intercept<br/>x-intercept<br/>slope-intercept form<br/>linear relationship</p> |
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|                       |  |  | <i>Chapter 4 Test – Math in Focus</i><br><i>Chapter 3-4 Cumulative review</i>  |  |   |
| November<br>(14 days) | Chapter 5: Systems of Linear Equations | <p><b>Big Idea:</b> A system of linear equations may have a unique solution. It can be solved using the elimination, substitution, or graphical method.</p> <p>5.1 Introduction to Systems of Linear Equations</p> <ul style="list-style-type: none"> <li>Understand systems of linear equations.</li> </ul> <p>5.2 Solving Systems of Linear Equations Using Algebraic Methods</p> <ul style="list-style-type: none"> <li>Solve systems of linear equations using the elimination method</li> <li>Solve systems of linear equations using the substitution method</li> </ul> <p>5.3 Real-world problems: Systems of linear equations</p> <ul style="list-style-type: none"> <li>Solve real-world problems using systems of linear equations.</li> </ul> <p>5.4 Solving Systems of Linear Equations by Graphing</p> <ul style="list-style-type: none"> <li>Solve systems of linear equations using the graphical method</li> </ul> <p>5.5 Inconsistent and Dependent Systems of Linear Equations</p> <ul style="list-style-type: none"> <li>Understand and identify inconsistent systems of linear equations.</li> <li>Understand and identify dependent systems of linear equations.</li> </ul> | <p>CC.2.2.8.B.3 Analyze and solve linear equations and pairs of simultaneous linear equations. (M08.B-E.3.1.3-5)</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 5 Test – Math in Focus</i></p> | <p><b>RPK:</b><br/>Graphing linear equations using a table of values<br/>p. 191 Book A</p> <p>Chapter 5 pre-test<br/>MIF Textbook A p. 191-239</p> <p>ALEKS and Quick tables</p> | <p>System of linear equations<br/>Unique solution<br/>Common term<br/>Elimination method<br/>Substitution method<br/>Standard form<br/>Graphical method<br/>Point of intersection<br/>Inconsistent systems of equations<br/>Dependent system of equations</p> |
| December<br>(15 days) | Chapter 6: Functions                   | <p><b>Big Idea:</b> A function is a relation in which every input has exactly one output. You can use tables, graphs, and equations to represent many functions.</p> <p>6.1 Understanding Relations and Functions</p> <ul style="list-style-type: none"> <li>Understand relations</li> <li>Identify functions</li> </ul>   | <p>CC.2.2.8.C.1 Define, evaluate, and compare functions. (M08.B-F.1.1.2 -3)</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p>  | <p><b>RPK:</b> Writing algebraic expressions to represent unknown quantities</p>   | <p>Relation<br/>Input<br/>Output<br/>Function<br/>Vertical line test<br/>Linear function</p>  |

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|                          |   | <p>6.2 Representing Functions</p> <ul style="list-style-type: none"> <li>• Represent a function in different forms</li> </ul> <p>6.3 Understanding Linear and Nonlinear Functions</p> <ul style="list-style-type: none"> <li>• Identify linear functions</li> <li>• Identify nonlinear functions from graphs</li> <li>• Describe and sketch functions to show their qualitative features.</li> </ul> <p>6.4 Comparing Two Functions</p> <ul style="list-style-type: none"> <li>• Compare linear functions represented in the same and in different forms</li> </ul>   | <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p><i>Chapter 6 Test – Math in Focus</i><br/> <i>Chapter 5-6 Cumulative review</i><br/> <i>District Benchmark</i></p>   | <p>p. 241 Book A</p> <p>Chapter 6 pre-test<br/> MIF Textbook A p. 241 -297</p> <p>ALEKS and Quick tables</p>  | <p>Rate of change</p> <p>Nonlinear function</p>                  |
| <p>January (12 days)</p> | <p>Chapter 7: the Pythagorean Theorem</p> | <p><b>Big Idea:</b> The Pythagorean Theorem describes the relationship among the three sides of a right triangle.</p> <p>7.1 Understanding the Pythagorean Theorem and the Plane Figure</p> <ul style="list-style-type: none"> <li>• Use the Pythagorean Theorem to find the unknown side lengths.</li> <li>• Use the converse of the Pythagorean Theorem.</li> <li>• Solve real-world problems involving the Pythagorean Theorem</li> </ul> <p>7.2 Understanding the distance formula</p> <ul style="list-style-type: none"> <li>• Use the Pythagorean Theorem to find the distance between two points on a coordinate plane</li> <li>• Understand the distance formula</li> </ul> <p>7.3 Understanding the Pythagorean Theorem and Solids</p> <ul style="list-style-type: none"> <li>• Use the Pythagorean Theorem to solve problems involving solids</li> </ul> <p>7.4 Identifying Volume of Composite Solids</p> <ul style="list-style-type: none"> <li>• Use the Pythagorean Theorem to find volume of composite solids</li> </ul> | <p>CC.2.1.8.E.4 Estimate irrational numbers by comparing them to rational numbers. (M08.A-N.1.1)</p> <p>CC.2.3.8.A.3 Understand and apply the Pythagorean Theorem to solve problems. (M08.C-G.2.1)</p> <p>CC.2.4.8.B.1 Analyze and/or interpret bivariate data displayed in multiple representations. (M08.D-S.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> Understanding squares and square roots, cubes and cube roots p. 3 Book B</p> <p>Chapter 7 pre-test<br/> MIF Textbook B p. 3-47</p> <p>ALEKS and Quick tables</p> | <p>Variable Pythagorean Theorem</p> <p>Hypotenuse</p> <p>Leg</p> |

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|                    |                                      |   | <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 7 Test – Math in Focus</i></p> |  |  |
|                    | <b>SUPPLEMENT</b>                    | <b>COURSE 2 Chapter 6 - Angle Properties and Straight Lines &amp; Chapter 8 - Volume and Surface Area of Solids</b>   |   |  |  |
| February (15 days) | Chapter 8: Geometric Transformations | <p><b>Big Idea:</b> Geometric Transformations move figures on a plane. Each transformation changes some properties of a figure, but leaves others unchanged.</p> <p>8.1 Translations</p> <ul style="list-style-type: none"> <li>● Understand the concept of a translation</li> <li>● Draw images after translations.</li> <li>● Find the coordinates of points after translations.</li> </ul> <p>8.2 Reflections</p> <ul style="list-style-type: none"> <li>● Understand the concept of a reflection</li> <li>● Draw images after reflections</li> <li>● Find the coordinates of points after reflections.</li> </ul> <p>8.3 Rotations</p> <ul style="list-style-type: none"> <li>● Understand the concept of a rotation</li> </ul> | <p>CC.2.3.8.A.2 Understand and apply congruence similarity, and geometric transformations using various tools. (M08.C-G.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> Recognizing a symmetric point on a coordinate plane. p. 49 Book B</p> <p>Chapter 8 pretest<br/>MIF Textbook B p. 49-111</p> | <p>Translation<br/>Map<br/>Image<br/>Transformation<br/>Invariant point<br/>Reflection<br/>Line of reflection<br/>Rotation<br/>Center of rotation<br/>Clockwise<br/>Counter clockwise<br/>Angle of rotation<br/>Half turn<br/>Dilation</p> |

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|                            |   | <ul style="list-style-type: none"> <li>• Draw images after rotations</li> </ul> <p>8.4 Dilations</p> <ul style="list-style-type: none"> <li>• Understand the concept of a dilation</li> <li>• Find the dimensions of figures after dilations</li> <li>• Draw images after dilations</li> <li>• Find the center of a dilation.</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 Reason abstractly and quantitatively</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p><i>Chapter 8 Test – Math in Focus</i></p>   | <p>ALEKS and Quick tables</p>  | <p>Scale factor<br/>Center of dilation<br/>Isometry</p>  |
| <p>March<br/>(11 days)</p> | <p>Chapter 9:<br/>Congruence and Similarity</p> | <p><b>Big Idea:</b> Both congruent figures and similar figures can be related by geometric transformations.</p> <p>9.1 Understanding and Applying Congruent Figures</p> <ul style="list-style-type: none"> <li>• Understand and apply the concept of congruence</li> <li>• Use tests for congruent triangles</li> </ul> <p>9.2 Understanding and Applying Similar Figures</p> <ul style="list-style-type: none"> <li>• Understand and apply the concept of similarity</li> <li>• Use tests for similar triangles</li> </ul> <p>9.3 Relating Congruent and Similar Figures to Geometric Transformations</p> <ul style="list-style-type: none"> <li>• Relate congruent or similar figures using geometric transformations</li> <li>• Perform and identify a sequence of transformations.</li> </ul> | <p>CC.2.3.8.A.2 Understand and apply congruence similarity, and geometric transformations using various tools. (M08.C-G.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>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><br/>Identifying the scale factor and solving problems involving scale factors.<br/>Finding the measure of an angle p.115<br/>Book B</p> <p>Chapter 9 pre-test<br/>MIF Textbook B p. 115-171</p> <p>ALEKS and Quick tables</p> | <p>Congruence<br/>Corresponding angles<br/>Corresponding sides<br/>Statement of congruence<br/>Protractor<br/>Ruler<br/>Scissors</p> |



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|                    |                            |  | CC.K-12.MP.7 Look for and use structure.   |   |  |
| April<br>(14 days) | Chapter 10:<br>Statistics  | <p><b>Big Idea:</b> A line of best fit can model the linear association of bivariate quantitative data. A two-way table displays the relative frequencies of categorical data.</p> <p>10.1 Scatter Plots</p> <ul style="list-style-type: none"> <li>● Draw a scatter plot given two sets of quantitative data</li> <li>● Identify patterns of association between two sets of quantitative data</li> <li>● Identify outliers in a scatter plot</li> </ul> <p>10.2 Modeling Linear Associations</p> <ul style="list-style-type: none"> <li>● Understand a line of best fit</li> <li>● Write a linear equation for a line of best fit</li> <li>● Use an equation for a line of best fit</li> </ul> <p>10.3 Two-way tables</p> <ul style="list-style-type: none"> <li>● Read data from a two-way table</li> <li>● Construct and interpret a two-way table</li> <li>● Convert data to relative frequencies in a two-way table</li> </ul> | <p>CC.2.4.8.B.1. Analyze and/or interpret bivariate data displayed in multiple representations. (M08.D-S.1.1)</p> <p>CC.2.4.8.B.2 Understand that patterns of association can be seen in bivariate data utilizing frequencies. (M08.D-S.1.2)</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.6 Use appropriate tools strategically</p> <p>CC.K-12.MP.7 Look for and use structure.</p> | <p><b>RPK:</b> Finding relative frequencies p.173</p> <p>Chapter 10 pretest<br/>MIF Textbook B p. 173-215</p> <p>ALEKS and Quick tables</p> | <p>Scatter plot</p> <p>Quantitative data</p> <p>Association</p> <p>Bivariate data</p> <p>Clustering</p> <p>Line of best fit</p> <p>Interpolate</p> <p>Extrapolate</p> <p>Two-way table</p> <p>Categorical data</p> <p>Qualitative data</p> |
|                    |                            | <b>PSSA TEST WINDOW</b>  |  |   |  |
| May<br>(14 days)   | Chapter 11:<br>Probability | <p><b>Big Idea:</b> The probability of simple events can be used to compute the probability of compound events, either dependent or independent.</p> <p>11.1 Compound events</p> <ul style="list-style-type: none"> <li>● Understand compound events</li> <li>● Represent compound events</li> </ul> <p>11.2 Probability of a compound event</p> <ul style="list-style-type: none"> <li>● Use possibility diagrams to find probability of compound events</li> </ul> <p>11.3 Independent events</p>  | <p>CC.2.2.8.B.3 Analyze and solve linear equations and pairs of simultaneous linear equations. (M08.B-E.3.1)</p> <p>CC.2.4.8.B.2 Understand that patterns of association can be seen in bivariate data utilizing frequencies. (M08.D-S.1.2)</p>  | <p><b>RPK:</b> Finding the probability of a simple event p.217 Book B</p> <p>Chapter 11 pre-test<br/>MIF Textbook B p. 217-273</p>          | <p>Compound event</p> <p>Simple event</p> <p>Possibility diagram</p> <p>Tree diagram</p> <p>Independent events</p> <p>Multiplication rule of probability</p> <p>Addition rule of probability</p>   |

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|  |  | <ul style="list-style-type: none"> <li>• Understand independent events</li> <li>• Use the multiplication rule and the addition rule of probability to solve problems with independent events.</li> </ul> <p>11.4 Dependent events</p> <ul style="list-style-type: none"> <li>• Understand dependent events</li> <li>• Use rules of probability to solve problems with dependent events</li> </ul> | <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>ALEKS and Quick tables</p> | <p>Dependent events</p> |
|--|--|---|--|-------------------------------|-------------------------|