

|                                    | <b><u>CURRICULUM</u></b><br><i>End Product of Learning, "What" You Teach</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                             |                                                                                                                                                                                                | <b><u>INSTRUCTION</u></b><br><i>Means to the End Product, "How" You Teach</i>                                                                                                             | <b><u>ASSESSMENT</u></b><br><i>Validation to Revise Curriculum &amp; Instruction</i>                                           |
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| TIME FRAME<br>[By Date/Week/Month] | STANDARD OR BENCHMARK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CONTENT:<br>What we want students to "KNOW".                                                                                                                                                                                                | SKILL:<br>What we want students to "DO".                                                                                                                                                       | Varied Teaching/Learning Strategies<br>Resources/Comments                                                                                                                                 | Varied Classroom Assessment Strategies                                                                                         |
| September                          | Chapter 1<br><br>Connections to Algebra<br><br>(Pp3-39)<br><br><b>CCSS</b><br><br>8.EE.1<br>8.EE.2<br><br>8.F.4<br><br>6.B.4<br>Select and use appropriate arithmetic operations in practical situations including calculating wages after taxes, developing a budget and balancing a checkbook.<br><br>7.A.4.a<br>Apply units and scales to describe and compare numerical data and physical objects.<br><br>7.A.4.b<br>Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density and monetary values.<br><br>10.A.4.a<br>Represent and organize data by creating lists, charts, tables, frequency distributions, | Students will:<br><br>- write and evaluate an expression.<br><br>- check solutions to equations and inequality.<br><br>- use verbal and algebraic models to represent real life situations.<br><br>- organize data and represent functions. | Students will:<br><br>- use variable expressions in real life situations.<br><br>- use exponents in real life problem solving.<br><br>- use organized data and graphs in real life situations. | (pp.3-39)<br><br>Algebra Textbook<br><br>Challenge Activities<br><br>Brain Pop<br><br>Khan Academy<br><br>Independent Work<br><br>Cooperative Group Work<br><br>Study Guide Investigation | Quizzes<br><br>Test<br><br>Homework Checks<br><br>Participation<br><br>Projects<br><br>Informal Observations<br><br>Discussion |

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| Course/Subject: McDougal Littell Algebra |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CURRICULUM MAP |  |  | Grade: 8 |
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|                                          | <p>graphs, scatterplots and box-plots.</p> <p>6.A.4<br/>Identify and apply the associative, commutative, distributive and identity properties of real numbers, including special numbers such as pi and square roots.</p> <p>6.d.4<br/>Solve Problems involving recipes or mixtures, financial calculations and geometric similarity using ratios, proportions and percents.</p> <p>8.A.4.b<br/>Represent mathematical patterns and describe their properties using variables and mathematical symbols.</p> <p>8.B.4.a<br/>Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations and inequalities and use appropriate technology.</p> <p>8.C.4.a<br/>Analyze and report the effects of changing coefficients, exponents and other parameters on functions and their graphs.</p> <p>6.B.4<br/>Select and use appropriate arithmetic operations in practical situations including calculating wages after taxes, developing a budget and balancing a checkbook.</p> <p>7.A.4.b<br/>Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area,</p> |                |  |  |          |

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|                                          | <p>volume, angle, time, temperature, mass, speed, distance, density and monetary values.</p> <p>8.b.4a<br/>Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations and inequalities and use appropriate technology.</p> <p>10.A.4.a<br/>Represent and organize data by creating lists, charts, tables, frequency distributions, graphs, scatterplots and box-plots.</p> <p>8.D.4<br/>Formulate and solve linear and quadratic equations and linear inequalities algebraically and investigate nonlinear inequalities using graphs, tables, calculators and computers.</p> <p>8.C.4.b<br/>Apply algebraic properties and procedures with matrices, vectors, functions and sequences using data found in business, industry and consumer situations.</p> |                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                     |                                                                                                                                        |
|                                          | <p>Chapter 2</p> <p>Properties of Real Numbers</p> <p>(pp. 63-127)</p> <p><b>CCSS</b></p> <p>8.NS.1<br/>8.NS.2</p> <p>6.A.4<br/>Identify and apply the associative, commutative,</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>Students will:</p> <ul style="list-style-type: none"> <li>- add, subtract, and multiply real numbers.</li> <li>- determine the likelihood of an event using probabilities and odds.</li> </ul> | <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>- graph and compare real numbers.</li> <li>- use absolute values of numbers in real life application.</li> <li>- organize data in a matrix.</li> <li>- add and subtract matrices.</li> </ul> | <p>(pp. 63-127)</p> <p>Algebra Textbook</p> <p>Challenge Activities</p> <p>Brain Pop</p> <p>Khan Academy</p> <p>Independent Work</p> <p>Cooperative Group Work</p> <p>Study Guide Investigation</p> | <p>Quizzes</p> <p>Test</p> <p>Homework Checks</p> <p>Participation</p> <p>Projects</p> <p>Informal Observations</p> <p>Discussions</p> |

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|                                          | <p>distributive and identity properties of real numbers, including special numbers such as pi and square roots.</p> <p>6.b.4<br/>Select and use appropriate arithmetic operations in practical situations including calculating wages after taxes, developing a budget and balancing a checkbook.</p> <p>7.A.4.b<br/>Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density and monetary values.</p> <p>8.B.4.a<br/>Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations and inequalities and use appropriate technology.</p> <p>8.B.4.b<br/>Use the basic functions of absolute value, square root, linear, quadratic and step to describe numerical relationships.</p> <p>8.C.4.b<br/>Apply algebraic properties and procedures with matrices, vectors, functions and sequences using data found in business, industry and consumer situations.</p> |                | <ul style="list-style-type: none"> <li>- use the distributive property.</li> <li>- simplify expressions by combining like terms.</li> <li>- find the probability of an event.</li> <li>- find the odds of an event.</li> </ul> |          |  |

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| Course/Subject: McDougal Littell Algebra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                     | CURRICULUM MAP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                      | Grade: 8                                                                                                                             |  |
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| <p>Chapter 3</p> <p>Solving Linear Equations</p> <p>(pp.132-197)</p> <p><b>CCSS</b></p> <p>8.EE.5</p> <p>8.EE.7</p> <p>    * 8.EE.7a</p> <p>    * 8.EE.7b</p> <p>6.B.4</p> <p>Select and use appropriate arithmetic operations in practical situations including calculating wages after taxes, developing a budget and balancing a checkbook.</p> <p>6.A.4</p> <p>Identify and apply the associative, commutative, distributive and identity properties of real numbers, including special numbers such as pi and square roots.</p> <p>7.A.4.a</p> <p>Apply units and scales to describe and compare numerical data and physical objects.</p> <p>7.A.4.b</p> <p>Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density, and monetary values.</p> <p>7.C.4.a</p> <p>Make indirect measurements, including heights and distances, using proportions (e.g., finding the heights of a tower by its shadow).</p> | <p>Students will:</p> <p>- learn techniques for solving linear equations.</p> <p>- learn ways to apply ratios, rates, percents, and problem solving strategies.</p> | <p>Students will:</p> <p>- solve linear equations using addition and subtraction.</p> <p>- use linear equations to solve real life problems.</p> <p>- use two or more transformations to solve an equation.</p> <p>- use multi-step equations to solve real life problems.</p> <p>- find exact and approximate solutions that contain decimals.</p> <p>- solve a formula for literal equations for one of its variables.</p> <p>- rewrite an equation in functional form.</p> <p>- use rates and rations and solve.</p> <p>- use percents and solve real life problems.</p> | <p>(Pg. 132-197)</p> <p>Algebra Textbook</p> <p>Challenge Activities</p> <p>Brain Pop</p> <p>Khan Academy</p> <p>Independent Work</p> <p>Cooperative Group Work</p> <p>Study Guide Investigation</p> | <p>Quizzes</p> <p>Test</p> <p>Homework Checks</p> <p>Participation</p> <p>Projects</p> <p>Informal Observation</p> <p>Discussion</p> |  |

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|                                          | <p>8.B.4.a<br/>Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations, and inequalities and use appropriate technology.</p> <p>8.D.4<br/>Formulate and solve linear and quadratic equations and linear inequalities algebraically and investigate nonlinear inequalities using graphs, tables, calculators and computers.</p>                                                                                              |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                      |                                                                                                                                      |
|                                          | <p>Chapter 4</p> <p>Graphing Linear Equations<br/>(pp.203-269)</p> <p><b>CCSS</b></p> <p>8.EE.5<br/>8.EE.6</p> <p>8.F.3<br/>8.F.4<br/>8.F.5</p> <p>8.SP.1<br/>8.SP.2<br/>8.SP.3</p> <p>7.A.4.b<br/>Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density, and monetary values.</p> <p>7.B.4<br/>Estimate and measure the</p> | <p>Students will:</p> <ul style="list-style-type: none"> <li>- graph a linear equation.</li> <li>- learn two ways to graph linear equations quickly.</li> <li>- learn how to tell whether an equation or a graph represent a function.</li> </ul> | <p>Students will:</p> <ul style="list-style-type: none"> <li>- draw a scatter plot and make predictions about real life situations.</li> <li>- graph a linear equation.</li> <li>- graph a horizontal and vertical line.</li> <li>- find the intercept of the graph of a linear equation.</li> <li>- use intercepts to make a quick graph.</li> <li>- find the slope of a line using two points.</li> <li>- interpret slope as a rate of change in real life situations.</li> <li>- graph a line equation in slope-intercept form.</li> <li>- solve linear equations graphically.</li> <li>- use graphs to solve real life problems.</li> </ul> | <p>(Pg. 203-269)</p> <p>Algebra Textbook</p> <p>Challenge Activities</p> <p>Brain Pop</p> <p>Khan Academy</p> <p>Independent Work</p> <p>Cooperative Group Work</p> <p>Study Guide Investigation</p> | <p>Quizzes</p> <p>Test</p> <p>Homework Checks</p> <p>Participation</p> <p>Projects</p> <p>Informal Observation</p> <p>Discussion</p> |

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|                                          | <p>magnitude and directions of physical quantities (e.g. velocity, force, slope) using rulers, protractors, and other scientific instruments including timers, calculators and computers.</p> <p>8.B.4.a<br/>Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations, and inequalities and use appropriate technology.</p> <p>8.B.4.b<br/>Use the basic functions of absolute value, square root, linear, quadratic and step to describe numerical relationships.</p> <p>8.C.4.a<br/>Analyze and report the effects of changing coefficients, exponents and other parameters on functions and their graphs.</p> <p>8.D.4<br/>Formulate and solve linear and quadratic equations and linear inequalities algebraically and investigate nonlinear inequalities using graphs, tables, calculators and computers.</p> <p>10.A.4.a<br/>Represent and organize data by creating lists, charts, tables, frequency distributions, graphs, scatterplots and box-plots.</p> <p>10.A.4.c<br/>Predict from data using interpolation, extrapolation and trend lines, with and without the use of technology.</p> |                |  |  |          |
|                                          | Chapter 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |  |  |          |

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| <p>Writing Linear Equations</p> <p>(pp. 273-329)</p> <p><b>CCSS</b></p> <p>8.EE.5</p> <p>8.EE.6</p> <p>8.F.2</p> <p>8.F.3</p> <p>8.F.4</p> <p>8.F.5</p> <p>8.SP.1</p> <p>8.SP.2</p> <p>8.SP.3</p> <p>8.B.4.a</p> <p>Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations and inequalities and use appropriate technology.</p> <p>8.B.4.b</p> <p>Use the basic functions of absolute value, square root, linear, quadratic and step to describe numerical relationships.</p> <p>8.C.4.b</p> <p>Apply algebraic properties and procedures with matrices, vectors, functions and sequences using data found in business, industry and consumer situations.</p> <p>8.C.4.a</p> <p>Analyze and report the effects of changing coefficients, exponents and other parameters on functions and their graphs.</p> <p>10.A.4.a</p> <p>Represent and organize data by creating lists, charts, tables, frequency distributions,</p> | <p>Students will:</p> <p>- learn three forms of linear equations.</p> <p>- write a linear equation given a point and a slope, or given two points.</p> <p>- write an equation of a line perpendicular to one another.</p> <p>- fit a line to data and use linear interpolation or linear extrapolation.</p> | <p>Students will:</p> <p>- use slope-intercept form to write the equation of a line.</p> <p>- use slope and any point on a line to write an equation of a line.</p> <p>- write an equation of a line given two points.</p> <p>- find a linear equation that approximates a set of data points.</p> <p>- determine whether there is a positive or negative correlation to a set of real life data.</p> <p>- use point-slope form to write an equation of a line.</p> <p>- write a linear equation in standard form.</p> | <p>(Pg. 273-329)</p> <p>Algebra Textbook</p> <p>Challenge Activities</p> <p>Brain Pop</p> <p>Khan Academy</p> <p>Independent Work</p> <p>Cooperative Group Work</p> <p>Study Guide Investigation</p> | <p>Quizzes</p> <p>Test</p> <p>Homework Checks</p> <p>Participation</p> <p>Projects</p> <p>Informal Observation</p> <p>Discussion</p> |  |

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|                                          | <p>graphs, scatterplots and box-plots.</p> <p>10.A.4.c<br/>Predict from data using interpolation, extrapolation and trend lines, with and without the use of technology.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                      |                                                                                                                               |
|                                          | <p>Chapter 6</p> <p>Solving and Graphing Linear Inequalities</p> <p>(pp.334-391)</p> <p><b>CCSS</b></p> <p>8.EE.1<br/>8.EE.2</p> <p>8.SP.4</p> <p>8.B.4.a<br/>Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations and inequalities and use appropriate technology.</p> <p>8.B.4.b<br/>Use the basic functions of absolute value, square root, linear, quadratic and step to describe numerical relationships.</p> <p>8.C.4.b<br/>Apply algebraic properties and procedures with matrices, vectors, functions and sequences data found in business, industry and consumer situations.</p> <p>8.D.4<br/>Formulate and solve linear and quadratic equations and linear inequalities algebraically and investigate nonlinear inequalities using graphs, tables, calculators and</p> | <p>Students will:</p> <ul style="list-style-type: none"> <li>- solve and graph inequalities.</li> <li>- <b>solve and graph absolute equations and inequalities.</b></li> <li>- <b>use the measure of central tendencies and statistical plots.</b></li> </ul> | <p>Students will:</p> <ul style="list-style-type: none"> <li>- graph linear inequalities with one variable.</li> <li>- solve one-step linear inequalities.</li> <li>- solve multi-step linear inequalities.</li> <li>- write, solve, and graph compound inequalities.</li> <li>- solve absolute values equations and inequalities.</li> <li>- graph a linear inequality with two variables.</li> <li>- solve real life problems using a linear inequality with two variables.</li> <li>- use stem-and-leaf plots.</li> <li>- Use box and whisker plots to organize real life data.</li> </ul> | <p>(Pg. 334-391)</p> <p>Algebra Textbook</p> <p>Challenge Activities</p> <p>Brain Pop</p> <p>Khan Academy</p> <p>Independent Work</p> <p>Cooperative Group Work</p> <p>Study Guide Investigation</p> | <p>Test</p> <p>Quizzes</p> <p>Homework</p> <p>Projects</p> <p>Participation</p> <p>Informal Observation</p> <p>Discussion</p> |

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|                                          | computers.                                                                                                                                                                       |                                                                 |                                                                                  |                           |                      |
|                                          | Chapter 7                                                                                                                                                                        |                                                                 |                                                                                  |                           |                      |
|                                          | Systems of Linear Equations and Inequalities                                                                                                                                     | Students will:                                                  | Students will:                                                                   | Pg. 398-445               | Test                 |
|                                          | (pp. 398-445)                                                                                                                                                                    | - learn three methods for solving a system of Linear Equations. | - solve a system of linear equations by graphing.                                | Algebra Textbook          | Quizzes              |
|                                          | <b>CCSS</b>                                                                                                                                                                      | - determine the number of solutions of a linear system.         | - solve a system of linear equations using substitution.                         | Challenge Activities      | Homework Checks      |
|                                          | 8.EE.8                                                                                                                                                                           | - graph and solve a system of linear inequalities.              | - solve a system of linear equations using a linear combinations.                | Brain Pop                 | Projects             |
|                                          | * 8.EE.8a                                                                                                                                                                        |                                                                 | - solve a system of linear equations with real life problem.                     | Khan Academy              | Participation        |
|                                          | * 8.EE.8b                                                                                                                                                                        |                                                                 | - identify linear systems with one solution, no solution, and infinite solution. | Independent Work          | Informal Observation |
|                                          | * 8.EE.8c                                                                                                                                                                        |                                                                 | - solve a system of linear inequalities with graphing.                           | Cooperative Group Work    | Discussion           |
|                                          | 6.D.4                                                                                                                                                                            |                                                                 |                                                                                  | Study Guide Investigation |                      |
|                                          | Solve problems involving recipes or mixtures, financial calculations and geometric similarity using ratios, proportions and percents.                                            |                                                                 |                                                                                  |                           |                      |
|                                          | 8.B.4.a                                                                                                                                                                          |                                                                 |                                                                                  |                           |                      |
|                                          | Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations and inequalities and use appropriate technology.                                |                                                                 |                                                                                  |                           |                      |
|                                          | 8.B.4.b                                                                                                                                                                          |                                                                 |                                                                                  |                           |                      |
|                                          | Use the basic functions of absolute value, square root, linear, quadratic and step to describe numerical relationships.                                                          |                                                                 |                                                                                  |                           |                      |
|                                          | 8.C.4.b                                                                                                                                                                          |                                                                 |                                                                                  |                           |                      |
|                                          | Apply algebraic properties and procedures with matrices, vectors, functions and sequences using data found in business, industry and consumer situations.                        |                                                                 |                                                                                  |                           |                      |
|                                          | 8.D.4                                                                                                                                                                            |                                                                 |                                                                                  |                           |                      |
|                                          | Formulate and solve linear and quadratic equations and linear inequalities algebraically and investigate nonlinear inequalities using graphs, tables, calculators and computers. |                                                                 |                                                                                  |                           |                      |
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|                                          | <p>Chapter 8</p> <p>Exponents and Exponential Functions (pp. 450-499)</p> <p><b>CCSS</b></p> <p>8.EE.3<br/>8.EE.4</p> <p>6.A.4<br/>Identify and apply the associative, commutative, distributive and identity properties of real numbers, including special numbers such as pi and square roots.</p> <p>7.A.4.a<br/>Apply units and scales to describe and compare numerical data and physical objects.</p> <p>7.A.4.b<br/>Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density and monetary values.</p> <p>7.C.4.c<br/>Convert within and between measurement systems and monetary systems using technology where appropriate.</p> <p>8.B.4.a<br/>Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations and inequalities and use appropriate technology.</p> <p>8.C.4.a<br/>Analyze and report the effects of changing coefficients, exponents and other</p> | <p>Students will:</p> <ul style="list-style-type: none"> <li>- multiply and divide expressions with exponents.</li> <li>- use scientific notations in problem solving.</li> <li>- use exponential growth and decay models to solve real life problems.</li> </ul> | <p>Students will:</p> <ul style="list-style-type: none"> <li>- use exponential properties to multiply exponential expressions.</li> <li>- evaluate powers that have zero and negative exponents.</li> <li>- use the division property of exponent to evaluate powers and simplify expressions.</li> <li>- use scientific notations in real life situations.</li> <li>- Write and use models for exponential growth</li> </ul> | <p>(pp. 450-499)</p> <p>Algebra Textbook</p> <p>Challenge Activities</p> <p>Brain Pop</p> <p>Khan Academy</p> <p>Independent Work</p> <p>Cooperative Group Work</p> <p>Study Guide Investigation</p> | <p>Test</p> <p>Quizzes</p> <p>Homework Checks</p> <p>Projects</p> <p>Participation</p> <p>Informal Observation</p> <p>Discussion</p> |

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| Course/Subject: McDougal Littell Algebra |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CURRICULUM MAP                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                      | Grade: 8                                                                                                                             |
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|                                          | <p>parameters on functions and their graphs.</p> <p>10.C.4.a<br/>Solve problems of chance using the principles of probability including conditional settings.</p> <p>10.C.4.c<br/>Propose and interpret discrete probability distributions, with and without the use of technology.</p> <p>10.A.4.a<br/>Represent and organize data by creating lists, charts, tables, frequency distributions, graphs, scatterplots and box-plots.</p> <p>10.B.4<br/>Design and execute surveys or experiments, gather data to answer relevant questions, and communicate results and conclusions to an audience using traditional methods and contemporary technology.</p> |                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                      |                                                                                                                                      |
|                                          | <p>Chapter 9</p> <p>Quadratic Functions and Equations (pp. 504-569)</p> <p><b>CCSS</b></p> <p>6.A.4<br/>Identify and apply the associative, commutative, distributive and identity properties of real numbers, including special numbers such as pi and square roots.</p> <p>6.C.4<br/>Determine whether exact values or approximations are appropriate (e.g., bid a job, determine gas mileage for a trip).</p>                                                                                                                                                                                                                                             | <p>Students will:</p> <p>- evaluate and approximate square roots.</p> <p>- simplify radicals.</p> <p>- solve a quadratic equations.</p> <p>- sketch the graph of a quadratic function and a quadratic inequality.</p> | <p>Students will:</p> <p>- evaluate and approximate square roots.</p> <p>- solve quadratic equations by finding square roots.</p> <p>- use properties of radicals to simplify radicals.</p> <p>- sketch the graph of a quadratic function.</p> <p>- solve a quadratic equation graphically and algebraically.</p> <p>- use the discriminant to find the number of solutions of a quadratic</p> | <p>(pp. 504-569)</p> <p>Algebra Textbook</p> <p>Challenge Activities</p> <p>Brain Pop</p> <p>Khan Academy</p> <p>Independent Work</p> <p>Cooperative Group Work</p> <p>Study Guide Investigation</p> | <p>Test</p> <p>Quizzes</p> <p>Homework Checks</p> <p>Projects</p> <p>Participation</p> <p>Informal Observation</p> <p>Discussion</p> |

RED = ABOVE COMMON CORE LEVEL GREEN = BELOW COMMON CORE LEVEL BLACK = ON LEVEL

| Course/Subject: McDougal Littell Algebra |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CURRICULUM MAP                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                      | Grade: 8                                                                                                                            |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|                                          | <p>7.A.4.b<br/>Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density and monetary values.</p> <p>8.B.4.a<br/>Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations and inequalities and use appropriate technology.</p> <p>8.C.4.a<br/>Analyze and report the effects of changing coefficients, exponents and other parameters on functions and their graphs.</p> <p>8.B.4.b<br/>Use the basic functions of absolute value, square root, linear, quadratic and step to describe numerical relationships.</p> |                                                                                                                                                        | <p>equation.</p> <p>- sketch the graph of a quadratic inequality.</p>                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                     |
|                                          | <p>Chapter 10</p> <p>Polynomials and Factoring<br/>(pp. 576-639)</p> <p><b>CCSS</b></p> <p>7.A.4.b<br/>Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density and monetary values.</p> <p>8.B.4.a<br/>Represent algebraic concepts with physical materials,</p>                                                                                                                                                                                                                                                                                          | <p>Students will:</p> <p>- add, subtract, and multiply polynomials.</p> <p>- factor polynomials.</p> <p>- solve polynomial equations by factoring.</p> | <p>Students will be able to:</p> <p>- add, subtract, and multiply polynomials.</p> <p>- use special product patterns.</p> <p>- solve a polynomial equation in factored form.</p> <p>- factor a quadratic expression of the standard form.</p> <p>- solve a quadratic equation by factoring.</p> <p>- use special product patterns to factor quadratic polynomials.</p> | <p>(pp. 576-639)</p> <p>Algebra Textbook</p> <p>Challenge Activities</p> <p>Brain Pop</p> <p>Khan Academy</p> <p>Independent Work</p> <p>Cooperative Group Work</p> <p>Study Guide Investigation</p> | <p>Test</p> <p>Quizzes</p> <p>Homework Check</p> <p>Projects</p> <p>Participation</p> <p>Informal Observation</p> <p>Discussion</p> |

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| Course/Subject: McDougal Littell Algebra |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CURRICULUM MAP                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                   | Grade: 8                                                                                                                            |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|                                          | <p>words, diagrams, tables, graphs, equations and inequalities and use appropriate technology.</p> <p>8.B.4.b<br/>Use the basic functions of absolute value, square root, linear, quadratic and step to describe numerical relationships.</p> <p>8.C.4.a<br/>Analyze and report the effects of changing coefficients, exponents and other parameters on functions and their graphs.</p> <p>10.A.4.a<br/>Represent and organize data by creating lists, charts, tables, frequency distributions, graphs, scatter plots and box-plots.</p> |                                                                                                                                                                                                               | - use the distributive property to factor a polynomial.                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                   |                                                                                                                                     |
|                                          | <p>Chapter 11</p> <p>Rational Equations and Functions</p> <p>(pp. 644-705)</p> <p><b>CCSS</b></p> <p>8.NS.1<br/>8.NS.2</p> <p>8.EE.7<br/>* 8.EE.7a<br/>* 8.EE.7b</p> <p>6.B.4<br/>Select and use appropriate arithmetic operations in practical situations including calculating wages after taxes, developing a budget and balancing a checkbook.</p> <p>7.C.4.a<br/>Make indirect measurements, including heights and distances, using proportions (e.g., finding the height of a</p>                                                  | <p>Students will:</p> <ul style="list-style-type: none"> <li>- solve rational equations.</li> <li>- add, subtract, multiply, and divide rational expressions.</li> <li>- graph rational functions.</li> </ul> | <p>Students will:</p> <ul style="list-style-type: none"> <li>- solve and write proportions.</li> <li>- solve percent problems in real life situations.</li> <li>- simplify a rational expressions.</li> <li>- multiply and divide rational expressions.</li> <li>- add and subtract rational expressions.</li> <li>- divide a polynomial by a monomial or binomial factor.</li> <li>- solve rational equations.</li> </ul> | <p>(pp. 664-705)<br/>Algebra Textbook</p> <p>Challenge Activities</p> <p>Brain Pop</p> <p>Khan Academy</p> <p>Independent Work</p> <p>Cooperative Group Work</p> <p>Study Guide Investigation</p> | <p>Test</p> <p>Quizzes</p> <p>Homework Check</p> <p>Projects</p> <p>Participation</p> <p>Informal Observation</p> <p>Discussion</p> |

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| Course/Subject: McDougal Littell Algebra |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CURRICULUM MAP                                                                       |                                                                          |                                              | Grade: 8                                   |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------|
|                                          | <p>tower by its shadow).</p> <p>7.A.4.b<br/>Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density and monetary values.</p> <p>8.B.4.a<br/>Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations and inequalities and use appropriate technology.</p> <p>8.D.4<br/>Formulate and solve linear and quadratic equations and linear inequalities algebraically and investigate nonlinear inequalities using graphs, tables, calculators and computers.</p> <p>8.C.4.b<br/>Apply algebraic properties and procedures with matrices, vectors, functions and sequences using data found in business, industry and consumer situations.</p> <p>10.C.4.a<br/>Solve problems of chance using the principles of probability including conditional settings.</p> <p>10.C.4.c<br/>Propose and interpret discrete probability distributions, with and without the use of technology.</p> |                                                                                      |                                                                          |                                              |                                            |
|                                          | <p>Chapter 12</p> <p>Radical and connections to Geometry</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>Students will:</p> <p>- solve a radical equation and graph radical functions.</p> | <p>Students will:</p> <p>- evaluate and graph square root functions.</p> | <p>(pp. 710-773)</p> <p>Algebra Textbook</p> | <p>Test</p> <p>Quizzes</p> <p>Homework</p> |

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| Course/Subject: McDougal Littell Algebra |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CURRICULUM MAP                          |                                                                                                                                                                                                                                                                                                     | Grade: 8                                                                                                                                                |                                                                                    |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                          | <p>(pp.710-773)</p> <p><b>CCSS</b></p> <p>8.G.6<br/>8.G.7<br/>8.G.8</p> <p>6.D.4<br/>Solve problems involving recipes or mixtures, financial calculations and geometric similarity using ratios, proportions and percents.</p> <p>6.A.4<br/>Identify and apply the associative, commutative, distributive and identity properties of real numbers, including special numbers such as pi and square roots.</p> <p>7.A.4.a<br/>Apply units and scales to describe and compare numerical data and physical objects.</p> <p>7.A.4.b<br/>Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density and monetary values.</p> <p>8.B.4.b<br/>Use the basic functions of absolute value, square root, linear, quadratic and step to describe numerical relationships.</p> <p>8.B.4.a<br/>Represent algebraic concepts with physical materials, words, diagrams, tables, graphs, equations and inequalities and use appropriate technology.</p> | <p>- apply the Pythagorean theorem.</p> | <p>- add, subtract, multiply and divide radical expressions.</p> <p>- solve a radical equation.</p> <p>- solve a quadratic equation by completing the square.</p> <p>- use Pythagorean theorem and it's converse.</p> <p>- find distance and midpoint between two points in a coordinate plane.</p> | <p>Challenge Activities</p> <p>Brain Pop</p> <p>Khan Academy</p> <p>Independent Work</p> <p>Cooperative Group Work</p> <p>Study Guide Investigation</p> | <p>Projects</p> <p>Participation</p> <p>Informal Observation</p> <p>Discussion</p> |

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| Course/Subject: McDougal Littell Algebra |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CURRICULUM MAP |  |  | Grade: 8 |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|--|----------|
|                                          | <p>8..D.4<br/>Formulate and solve linear and quadratic equations and linear inequalities algebraically and investigate nonlinear inequalities using graphs, tables, calculators and computers.</p> <p>9.A.4.b<br/>Make perspective drawings, tessellations and scale drawings, with and without the use of technology.</p> <p>9.B.4<br/>Recognize and apply relationships within and among geometric figures.</p> <p>9.C.4.a<br/>Construct and test logical arguments for geometric situations using technology where appropriate.</p> <p>9.C.A.b<br/>Construct and communicate convincing arguments for geometric situations.</p> <p>9.C.4.c<br/>Develop and communicate mathematical proofs (e.g., two column, paragraph, indirect) and counter examples for geometric statements.</p> <p>9.D.4<br/>Analyze and solve problems involving triangles (e.g., distances which cannot be measured directly) using trigonometric ratios.</p> |                |  |  |          |

Notes: CCSS not addressed include 8.G.1 a-c, 8.G.2, 8.G.3, 8.G.4, 8.G.5, 8.G.9. However, they are taught in the seventh grade curriculum.

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