

CARLSTADT-EAST RUTHERFORD REGIONAL HIGH SCHOOL DISTRICT  
MATHEMATICS DEPARTMENT  
GEOMETRY / GEOMETRY CP/ GEOMETRY HONORS

Geometry / Geometry CP / Geometry Honors Curriculum Guide

<b>Pacing Guide</b>  Geometry is a full year course that meets on a rotating basis for three (3) 55-minute blocks and one (1) 40-minute block for every five (5) day cycle.	<b>Unit 1 (Chapter 1): Basics of Geometry. 2-3 weeks</b>  <b>Unit 2 (Chapter 2): Reasoning and Proof. 1-2 weeks</b>  <b>Unit 3 (Chapter 3): Perpendicular and Parallel Lines. 2-3 weeks</b>  <b>Unit 4 (Chapter 4): Congruent Triangles. Regular: 4-5 weeks</b>  <b>Unit 5 (Chapter 5): Properties of Triangles. 2 weeks</b>  <b>Unit 6 (Chapter 8): Similarity. 2-3 weeks</b>  <b>Unit 7 (Chapter 9): Right Triangles and Trigonometry. 3-4 weeks</b>  <b>Unit 8 (Chapter 6): Quadrilaterals. 2-3 weeks</b>  <b>Unit 9 (Chapter 7): Transformations. 2-3 weeks</b>  <b>Unit 10 (Chapter 10): Circles. 3-4 weeks</b>  <b>Unit 12 (Chapter 12): Surface Area and Volume. 2-3 weeks</b>
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<b>21<sup>st</sup> Century Skills Standards:</b>	
<b>9.2 Career Awareness</b>	<b>9.2.12.C.1:</b> Review career goals and determine steps necessary for attainment.
<b>Technology Standards</b>	<b>8.1.12.A.4:</b> Construct a spreadsheet, enter data, and use mathematical or logical functions to manipulate data, generate charts and graphs, and interpret the results.  <b>8.1.12.A.CS1:</b> Understand and use technology systems.
<b>Interdisciplinary Connections</b>	SCIENCE HS-PS1-1. Use the periodic table as a model to predict the relative properties of elements based on the patterns of electrons in the outermost energy level of atoms.
<b>NJSLS Mathematical Practices –</b> These practices are demonstrated throughout the curriculum.	1. Make sense of problems and persevere in solving them. 2. Reason abstractly and quantitatively. 3. Construct viable arguments and critique the reasoning of others. 4. Model with mathematics. 5. Use appropriate tools strategically. 6. Attend to precision. 7. Look for and make use of structure. 8. Look for and express regularity in repeated reasoning.
<b>NJSLS Career Ready Practices –</b> These practices are demonstrated throughout the curriculum	CRP2. Apply appropriate academic and technical skills. CRP4. Communicate clearly and effectively and with reason. CRP6. Demonstrate creativity and innovation. CRP7. Employ valid and reliable research strategies. CRP8. Utilize critical thinking to make sense of problems and persevere in solving them. CRP9. Model integrity, ethical leadership and effective management. CRP11. Use technology to enhance productivity. CRP12. Work productively in teams while using cultural global competence.

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**Differentiation/Accommodations/Modifications**

Note: Each district should review the various strategies noted below and determine which are applicable for their population within varied grade levels and languages and make edits where needed.

Gifted and Talented	English Language Learners	Students with Disabilities	Students at Risk of School Failure
<p><i>(content, process, product and learning environment)</i></p> <p><b>Extension Activities:</b></p> <ul style="list-style-type: none"> <li>• Conduct research and provide presentation of mathematical topics.</li> <li>• Design surveys to generate and analyze data to be used in discussion.</li> <li>• Use of higher level questioning techniques.</li> <li>• Provide assessments at a higher level of thinking.</li> </ul>	<p><b>Modifications for Classroom:</b></p> <p><b>Modifications for Homework/Assignments</b></p> <ul style="list-style-type: none"> <li>• Modified assignments.</li> <li>• Extended time for assignment completion as needed.</li> <li>• Use graphing calculator.</li> <li>• Highlight formulas.</li> </ul>	<p><i>(appropriate accommodations, instructional adaptations, and/or modifications as determined by the IEP or 504 team)</i></p> <p><b>Modifications for Classroom:</b></p> <ul style="list-style-type: none"> <li>• Ask students to restate information, directions, and assignments.</li> <li>• Repetition and practice.</li> <li>• Model skills / techniques to be mastered.</li> <li>• Extended time to complete class work.</li> <li>• Provide copy of classnotes.</li> <li>• Preferential seating to be mutually determined by the student and teacher.</li> <li>• Students may request books online, on tape/CD, as available and appropriate.</li> <li>• Assign peer helper in the class setting.</li> <li>• Provide regular parent / school communication</li> <li>• Provide oral reminders and check student work during independent</li> </ul>	<p><b>Modifications for Classroom:</b></p> <ul style="list-style-type: none"> <li>• Ask students to restate information, directions, and assignments.</li> <li>• Repetition and practice.</li> <li>• Model skills / techniques to be mastered.</li> <li>• Extended time to complete class work.</li> <li>• Provide copy of classnotes.</li> <li>• Preferential seating to be mutually determined by the student and teacher.</li> <li>• Students may request books online, on tape/CD, as available and appropriate.</li> <li>• Assign peer helper in the class setting.</li> <li>• Provide oral reminders and check student work during independent work time.</li> <li>• Assist student with long and short term planning of assignments</li> <li>• Provide regular parent / school communication.</li> <li>• Assign peer helper in the class setting.</li> </ul>

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		<p>work time.</p> <ul style="list-style-type: none"> <li>• Assist student with long and short term planning of assignments</li> </ul> <p><b>Modifications for Homework</b></p> <ul style="list-style-type: none"> <li>• Extended time to complete assignments.</li> <li>• Student requires more complex assignments to be broken up and explained in smaller units, with work to be submitted in phases.</li> <li>• Provide the student with clearly stated (written) expectations and grading criteria for assignments.</li> </ul> <p><b>Modification for Assessments</b></p> <ul style="list-style-type: none"> <li>• Extended time on classroom tests and quizzes.</li> <li>• Student may take / complete tests in an alternate setting as needed.</li> <li>• Restate, reread, and clarify directions/questions.</li> <li>• Distribute study guide for classroom tests.</li> <li>• Establish procedures for accommodations / modifications for assessments.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide oral reminders and check student work during independent work time.</li> <li>• Assist student with long and short term planning of assignments</li> </ul> <p><b>Modifications for Homework</b></p> <ul style="list-style-type: none"> <li>• Extended time to complete assignments.</li> <li>• Student requires more complex assignments to be broken up and explained in smaller units, with work to be submitted in phases.</li> <li>• Provide the student with clearly stated (written) expectations and grading criteria for assignments.</li> </ul> <p><b>Modification for Assessments</b></p> <ul style="list-style-type: none"> <li>• Extended time on classroom tests and quizzes.</li> <li>• Student may take / complete tests in an alternate setting as needed.</li> <li>• Restate, reread, and clarify directions/questions.</li> <li>• Distribute study guide for classroom tests.</li> <li>• Establish procedures for accommodations / modifications for assessments.</li> </ul>
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<b>Theme:</b> Basics of Geometry			
<b>Essential Questions:</b> How do you use inductive reasoning in mathematics? How do you name geometric figures? What are congruent segments? How do you identify whether an angle is acute, right, obtuse, or straight? How do you identify complementary and supplementary angles?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 1.1 Patterns and Inductive Reasoning</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find and describe patterns</li> <li>Use inductive reasoning to make real-life conjecture</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.9, 10, 11
			<b>Time Frame:</b> 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 1.2 Points, Lines, and Planes</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Understand and use the basic undefined terms and defined terms of geometry.</li> <li>Sketch the intersection of lines and planes</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSL MA 9-12 G.CO.1
			<b>Time Frame:</b> 2-3 days
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<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 1.3 Segments and Their Measures</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use segment postulates</li> <li>Use the Distance Formula to measure distance</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4  NJSLS MA 9-12 G.CO.1, 7 9.3.ST.SM.2
			<b>Time Frame:</b> 2-3 days
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<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 1.4 Angles and Their Measures</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use angle postulates</li> <li>Classify angles as acute, right, obtuse, or straight</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4  NJSLS MA 9-12 G.CO.1,7,12
			<b>Time Frame:</b> 2-3 days
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<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 1.5 Segment and Angle Bisectors</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Bisect a segment</li> <li>Bisect an angle</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4  NJSLS MA 9-12 G.CO.1,7,12
			<b>Time Frame:</b> 2-3 days
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<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 1.6 Angle Pair Relationships</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify vertical angles and linear pairs</li> <li>Identify complementary and supplementary angles</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4  NJSLS MA 9-12 G.CO.1,9
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<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 1.7 Introduction to Perimeter, Circumference, and Area</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find the perimeter and area of common plane figures</li> <li>Use general problem-solving plan`</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4  NJSLS MA 9-12 G.GMD 1
			<b>Time Frame:</b> 1-2 days
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<b>CONTENT:</b> Chapter 2			
<b>Theme:</b> Reasoning and Proof			
<b>Essential Questions:</b> How do you write a converse, inverse and contrapositive statement? How do you write a biconditional statement? How do you construct a logical argument? How do you solve an equation? How do you write a geometric proof?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 2.1 Conditional Statements</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Recognize and analyze a conditional statement</li> <li>Write postulates about points, lines, and planes using conditional statements</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4  NJSLS MA 9-12 G.CO.9, 10, 11
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<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 2.2 Definitions and Biconditional Statements</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Recognize and use definitions</li> <li>Recognize and use biconditional statements</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.9, 10, 11
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<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 2.3 Deductive Reasoning</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use symbolic notation to represent logical statements</li> <li>Form conclusions by applying the laws of logic to true statements.</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.1, 9, 10, 11
			<b>Time Frame:</b> Honors Only: 2 days
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<b>Essential Questions:</b> How do you write a converse, inverse and contrapositive statement? How do you write a biconditional statement? How do you construct a logical argument? How do you solve an equation? How do you write a geometric proof?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 2.4 Reasoning with Properties of Algebra</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use properties from algebra</li> <li>Use properties of length and measure to justify segment and angle relationships</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 A.REI.1 G.CO.9, 10, 11
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 2			
<b>Theme:</b> Reasoning and Proof			
<b>Essential Questions:</b> How do you write a converse, inverse and contrapositive statement? How do you write a biconditional statement? How do you construct a logical argument? How do you solve an equation? How do you write a geometric proof?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 2.5 Proving Statements about Segments</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Justify statements about congruent segments</li> <li>Write reasons for steps in a proof</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.9, 10, 11
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad



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<b>CONTENT:</b> Chapter 2			
<b>Theme:</b> Reasoning and Proof			
<b>Essential Questions:</b> How do you write a converse, inverse and contrapositive statement? How do you write a biconditional statement? How do you construct a logical argument? How do you solve an equation? How do you write a geometric proof?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 2.6 Proving Statements about Angles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Justify statements about congruent angles</li> <li>Write reasons for steps in a proof</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4  NJSLS MA 9-12 G.CO.9, 10, 11
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 3			
<b>Theme:</b> Perpendicular and Parallel Lines			
<b>Essential Questions:</b> What angle pairs are formed by transversals? How are corresponding angles and alternate interior angles related for two parallel lines and a transversal? How do you find the slope of a line given the coordinates of two points on the line? How do you write an equation of a line? How do you find the distance between a point and a line?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 3.1 Lines and Angles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify relationships between lines</li> <li>Identify angles by transversals</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.1, 9
			<b>Time Frame:</b> 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 3			
<b>Theme:</b> Perpendicular and Parallel Lines			
<b>Essential Questions:</b> What angle pairs are formed by transversals? How are corresponding angles and alternate interior angles related for two parallel lines and a transversal? How do you find the slope of a line given the coordinates of two points on the line? How do you write an equation of a line? How do you find the distance between a point and a line?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 3.2 Proof and Perpendicular Lines</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Write different types of proofs</li> <li>Prove results about perpendicular lines</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.1, 9
			<b>Time Frame:</b> 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 3			
<b>Theme:</b> Perpendicular and Parallel Lines			
<b>Essential Questions:</b> What angle pairs are formed by transversals? How are corresponding angles and alternate interior angles related for two parallel lines and a transversal? How do you find the slope of a line given the coordinates of two points on the line? How do you write an equation of a line? How do you find the distance between a point and a line?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 3.3 Use Parallel Lines and Transversals</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Prove and use results about parallel lines and transversals</li> <li>Use properties of parallel lines to solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO. 9
			<b>Time Frame:</b> 2-4 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 3			
<b>Theme:</b> Perpendicular and Parallel Lines			
<b>Essential Questions:</b> What angle pairs are formed by transversals? How are corresponding angles and alternate interior angles related for two parallel lines and a transversal? How do you find the slope of a line given the coordinates of two points on the line? How do you write an equation of a line? How do you find the distance between a point and a line?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 3.4 Proving Lines are Parallel</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Prove that two lines are parallel</li> <li>Use properties of parallel lines to solve real-life problems.</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO. 9
			<b>Time Frame:</b> 1-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 3			
<b>Theme:</b> Perpendicular and Parallel Lines			
<b>Essential Questions:</b> What angle pairs are formed by transversals? How are corresponding angles and alternate interior angles related for two parallel lines and a transversal? How do you find the slope of a line given the coordinates of two points on the line? How do you write an equation of a line? How do you find the distance between a point and a line?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 3.5 Using Properties of Parallel Lines</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use properties of parallel lines in real-life situations</li> <li>Construct parallel lines using straightedge and compass</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO. 9
			<b>Time Frame:</b> CP and Honors only – 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 3			
<b>Theme:</b> Perpendicular and Parallel Lines			
<b>Essential Questions:</b> What angle pairs are formed by transversals? How are corresponding angles and alternate interior angles related for two parallel lines and a transversal? How do you find the slope of a line given the coordinates of two points on the line? How do you write an equation of a line? How do you find the distance between a point and a line?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 3.6 Parallel Lines in the Coordinate Plane</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find slopes of lines and use slope to identify parallel lines in a coordinate plane.</li> <li>Write equations of parallel lines in a coordinate plane.</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GPE.5 A.CED.2 G.CO.9, 12  <b>Time Frame:</b> 2-3 days  <b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 3			
<b>Theme:</b> Perpendicular and Parallel Lines			
<b>Essential Questions:</b> What angle pairs are formed by transversals? How are corresponding angles and alternate interior angles related for two parallel lines and a transversal? How do you find the slope of a line given the coordinates of two points on the line? How do you write an equation of a line? How do you find the distance between a point and a line?			
<b>Content</b> ( <i>As a result of this learning segment, students will know...</i> )  <ul style="list-style-type: none"> <li>Section 3.7 Perpendicular Lines in the coordinate plane</li> </ul>	<b>Skills</b> ( <i>As a result of this learning segment, students will be able to...</i> )  <ul style="list-style-type: none"> <li>Find slopes of lines and use slope to identify perpendicular lines in a coordinate plane.</li> <li>Write equations of perpendicular lines in a coordinate plane.</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GPE.5 A.CED.2 G.CO.9, 12
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad



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<b>CONTENT:</b> Chapter 4			
<b>Theme:</b> Congruent Triangles			
<b>Essential Questions:</b> How can you find the measure of the third angle of a triangle if you know the measure of the other two angles? What are congruent figures? How can you use side lengths to prove triangles congruent? How can you use two sides and an angle to prove triangles are congruent? How can you use congruent triangles to prove angles or sides congruent? How are the sides and angles of a triangle related if there are two or more congruent sides or angles?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 4.1 Triangles and Angles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Classify triangles by their sides and angles</li> <li>Find angle measure in triangles</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.10
			<b>Time Frame:</b> 1-2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 4			
<b>Theme:</b> Congruent Triangles			
<b>Essential Questions:</b> How can you find the measure of the third angle of a triangle if you know the measure of the other two angles? What are congruent figures? How can you use side lengths to prove triangles congruent? How can you use two sides and an angle to prove triangles are congruent? How can you use congruent triangles to prove angles or sides congruent? How are the sides and angles of a triangle related if there are two or more congruent sides or angles?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 4.2 Congruence and Triangles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify congruent figures and corresponding parts</li> <li>Prove that two triangles are congruent</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.10 G.CO.7
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 4			
<b>Theme:</b> Congruent Triangles			
<b>Essential Questions:</b> How can you find the measure of the third angle of a triangle if you know the measure of the other two angles? What are congruent figures? How can you use side lengths to prove triangles congruent? How can you use two sides and an angle to prove triangles are congruent? How can you use congruent triangles to prove angles or sides congruent? How are the sides and angles of a triangle related if there are two or more congruent sides or angles?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 4.3 Proving Triangles are Congruent: SSS and SAS</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Prove triangles are congruent using SSS and SAS Congruence Postulates</li> <li>Use congruence postulates in real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.10 G.CO.8, 10, 12
			<b>Time Frame:</b> 4-6 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 4			
<b>Theme:</b> Congruent Triangles			
<b>Essential Questions:</b> How can you find the measure of the third angle of a triangle if you know the measure of the other two angles? What are congruent figures? How can you use side lengths to prove triangles congruent? How can you use two sides and an angle to prove triangles are congruent? How can you use congruent triangles to prove angles or sides congruent? How are the sides and angles of a triangle related if there are two or more congruent sides or angles?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 4.4 Proving Triangles are Congruent: ASA and AAS</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Prove that triangles are congruent using the ASA Congruence Postulate and the AAS Congruence Theorem</li> <li>Use congruence postulates and theorems in real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.10 G.CO.8, 10, 12
			<b>Time Frame:</b> 4-6 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 4			
<b>Theme:</b> Congruent Triangles			
<b>Essential Questions:</b> How can you find the measure of the third angle of a triangle if you know the measure of the other two angles? What are congruent figures? How can you use side lengths to prove triangles congruent? How can you use two sides and an angle to prove triangles are congruent? How can you use congruent triangles to prove angles or sides congruent? How are the sides and angles of a triangle related if there are two or more congruent sides or angles?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 4.5 Using Congruent Triangles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use congruent triangles to plan and write proofs</li> <li>Use congruent triangles to prove constructions are valid</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.10 G.CO. 10, 12
			<b>Time Frame:</b> 1-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 4			
<b>Theme:</b> Congruent Triangles			
<b>Essential Questions:</b> How can you find the measure of the third angle of a triangle if you know the measure of the other two angles? What are congruent figures? How can you use side lengths to prove triangles congruent? How can you use two sides and an angle to prove triangles are congruent? How can you use congruent triangles to prove angles or sides congruent? How are the sides and angles of a triangle related if there are two or more congruent sides or angles?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 4.6 Isosceles, Equilateral, and Right Triangles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use properties of isosceles and equilateral triangles</li> <li>Use properties of right triangles</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.10
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 4			
<b>Theme:</b> Congruent Triangles			
<b>Essential Questions:</b> How can you find the measure of the third angle of a triangle if you know the measure of the other two angles? What are congruent figures? How can you use side lengths to prove triangles congruent? How can you use two sides and an angle to prove triangles are congruent? How can you use congruent triangles to prove angles or sides congruent? How are the sides and angles of a triangle related if there are two or more congruent sides or angles?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 4.7 Triangles and the coordinate proof</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Place geometric figures in a coordinate plane</li> <li>Write a coordinate proof</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.10
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 5			
<b>Theme:</b> Properties of Triangles			
<b>Essential Questions:</b> How do you find the point of concurrency of the perpendicular bisectors of the sides of a triangle? How do you find the centroid of a triangle? How do you write a coordinate proof? How do you find the possible lengths of the third side of a triangle if you know the lengths of two sides? What is the first step in writing an indirect proof?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 5.1 Perpendiculars and Bisectors</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use properties of perpendicular bisectors.</li> <li>Use properties of angle bisectors to identify equal distances</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.9, 12 G.C.3
			<b>Time Frame:</b> 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad



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<b>CONTENT:</b> Chapter 5			
<b>Theme:</b> Properties of Triangles			
<b>Essential Questions:</b> How do you find the point of concurrency of the perpendicular bisectors of the sides of a triangle? How do you find the centroid of a triangle? How do you write a coordinate proof? How do you find the possible lengths of the third side of a triangle if you know the lengths of two sides? What is the first step in writing an indirect proof?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 5.2 Bisectors of a Triangle</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use properties of perpendicular bisectors of a triangle</li> <li>Use properties of angle bisectors of a triangle</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.10 G.C.3
			<b>Time Frame:</b> 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 5			
<b>Theme:</b> Properties of Triangles			
<b>Essential Questions:</b> How do you find the point of concurrency of the perpendicular bisectors of the sides of a triangle? How do you find the centroid of a triangle? How do you write a coordinate proof? How do you find the possible lengths of the third side of a triangle if you know the lengths of two sides? What is the first step in writing an indirect proof?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 5.3 Medians and Altitudes of a triangles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use properties of medians of a triangle</li> <li>Use properties of altitudes of a triangle</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.10, 12
			<b>Time Frame:</b> 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 5			
<b>Theme:</b> Properties of Triangles			
<b>Essential Questions:</b> How do you find the point of concurrency of the perpendicular bisectors of the sides of a triangle? How do you find the centroid of a triangle? How do you write a coordinate proof? How do you find the possible lengths of the third side of a triangle if you know the lengths of two sides? What is the first step in writing an indirect proof?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 5.4 Midsegment Theorem</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify the midsegments of a triangle</li> <li>Use properties of midsegments of a triangle</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.10 G.GPE.4
			<b>Time Frame:</b> 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 5			
<b>Theme:</b> Properties of Triangles			
<b>Essential Questions:</b> How do you find the point of concurrency of the perpendicular bisectors of the sides of a triangle? How do you find the centroid of a triangle? How do you write a coordinate proof? How do you find the possible lengths of the third side of a triangle if you know the lengths of two sides? What is the first step in writing an indirect proof?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 5.5 Inequalities in One Triangle</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use triangle measurements to decide which side is longest or which angle is largest.</li> <li>Use the triangle inequality</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.7, 10
			<b>Time Frame:</b> 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 5			
<b>Theme:</b> Properties of Triangles			
<b>Essential Questions:</b> How do you find the point of concurrency of the perpendicular bisectors of the sides of a triangle? How do you find the centroid of a triangle? How do you write a coordinate proof? How do you find the possible lengths of the third side of a triangle if you know the lengths of two sides? What is the first step in writing an indirect proof?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 5.6 Indirect Proof and Inequalities in Two Triangles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Read and write an indirect proof</li> <li>Use the Hinge Theorem and its converse to compare side lengths and angle measures.</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.7, 10
			<b>Time Frame:</b> Honors Only – 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 8			
<b>Theme:</b> Similarity			
<b>Essential Questions:</b> If two figures are similar, how do you find the length of a missing side? How can you show that two triangles are similar? How do you prove that two triangles are similar by using the SSS Similarity Theorem? What proportions can you write if a line is parallel to one side of a triangle? How do you dilate a figure in the coordinate plane?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 8.1 Ratio and Proportion</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Read and write an indirect proof</li> <li>Use the Hinge Theorem and its converse to compare side lengths and angle measures.</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSL MA 9-12 G.SRT.5
			<b>Time Frame:</b> 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 8			
<b>Theme:</b> Similarity			
<b>Essential Questions:</b> If two figures are similar, how do you find the length of a missing side? How can you show that two triangles are similar? How do you prove that two triangles are similar by using the SSS Similarity Theorem? What proportions can you write if a line is parallel to one side of a triangle? How do you dilate a figure in the coordinate plane?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 8.2 Problem Solving In Geometry with Proportions</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use properties of proportions</li> <li>Use proportions to solve real-life problems.</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSL MA 9-12 G.SRT.4, 5 G.GPE.6 G.MG.3
			<b>Time Frame:</b> 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 8			
<b>Theme:</b> Similarity			
<b>Essential Questions:</b> If two figures are similar, how do you find the length of a missing side? How can you show that two triangles are similar? How do you prove that two triangles are similar by using the SSS Similarity Theorem? What proportions can you write if a line is parallel to one side of a triangle? How do you dilate a figure in the coordinate plane?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 8.3 Similar Polygons</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify similar polygons</li> <li>Use similar polygons to solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.SRT.3, 4
			<b>Time Frame:</b> 1-2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad



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<b>CONTENT:</b> Chapter 8			
<b>Theme:</b> Similarity			
<b>Essential Questions:</b> If two figures are similar, how do you find the length of a missing side? How can you show that two triangles are similar? How do you prove that two triangles are similar by using the SSS Similarity Theorem? What proportions can you write if a line is parallel to one side of a triangle? How do you dilate a figure in the coordinate plane?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 8.4 Similar Triangles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify similar triangles</li> <li>Use similar triangles to solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.SRT.3, 4
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 8			
<b>Theme:</b> Similarity			
<b>Essential Questions:</b> If two figures are similar, how do you find the length of a missing side? How can you show that two triangles are similar? How do you prove that two triangles are similar by using the SSS Similarity Theorem? What proportions can you write if a line is parallel to one side of a triangle? How do you dilate a figure in the coordinate plane?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 8.5 Proving Triangles are Similar</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use similarity theorems to prove that two triangles are similar.</li> <li>Use similar triangles to solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSL MA 9-12 G.SRT.3, 4
			<b>Time Frame:</b> 2-4 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 8			
<b>Theme:</b> Similarity			
<b>Essential Questions:</b> If two figures are similar, how do you find the length of a missing side? How can you show that two triangles are similar? How do you prove that two triangles are similar by using the SSS Similarity Theorem? What proportions can you write if a line is parallel to one side of a triangle? How do you dilate a figure in the coordinate plane?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i> <ul style="list-style-type: none"> <li>Section 8.6 Proportions and Similar Triangles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i> <ul style="list-style-type: none"> <li>Use proportionality theorems to calculate segment length.</li> <li>To solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.SRT.4, 5 G.GPE.6 G.MG.3
			<b>Time Frame:</b> Honors Only – 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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MATHEMATICS DEPARTMENT  
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<b>CONTENT:</b> Chapter 8			
<b>Theme:</b> Similarity			
<b>Essential Questions:</b> If two figures are similar, how do you find the length of a missing side? How can you show that two triangles are similar? How do you prove that two triangles are similar by using the SSS Similarity Theorem? What proportions can you write if a line is parallel to one side of a triangle? How do you dilate a figure in the coordinate plane?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 9.1 Similar Right Triangles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Solve problems involving similar right triangles formed by the altitude drawn to the hypotenuse of a right triangle</li> <li>Use a geometric mean to solve problems.</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.SRT.4, 5 G.MG.1
			<b>Time Frame:</b> Honors Only - 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 8			
<b>Theme:</b> Similarity			
<b>Essential Questions:</b> If two figures are similar, how do you find the length of a missing side? How can you show that two triangles are similar? How do you prove that two triangles are similar by using the SSS Similarity Theorem? What proportions can you write if a line is parallel to one side of a triangle? How do you dilate a figure in the coordinate plane?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 8.7 Dilations</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify Dilations</li> <li>Use properties of dilations to create real-life perspective drawings</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.2 G.SRT.1 G.GPE.4
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 9			
<b>Theme:</b> Right Triangles and Trigonometry			
<b>Essential Questions:</b> How can you find the length of the altitude to the hypotenuse of a right triangle? If you know the lengths of two sides of a right triangle, how do you find the length of the third side? How can you use the sides of a triangle to determine if it is right? How do you find the lengths of the sides of a 30°, 60°, 90° triangle and a 45°, 45°, 90° triangle? How can you find the leg of a right triangle when you know the other leg and one acute angle? How can you find the lengths of the sides of a right triangle when you are given the length of the hypotenuse and once acute angle? In a right triangle, how can you find all the sides and angles of the triangle? How do you find the area of a regular polygon?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 9.2 The Pythagorean Theorem</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Prove the Pythagorean Theorem</li> <li>Use the Pythagorean Theorem to solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.SRT.4, 8 G.GPE. 7
			<b>Time Frame:</b> 1-2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 9			
<b>Theme:</b> Right Triangles and Trigonometry			
<b>Essential Questions:</b> How can you find the length of the altitude to the hypotenuse of a right triangle? If you know the lengths of two sides of a right triangle, how do you find the length of the third side? How can you use the sides of a triangle to determine if it is right? How do you find the lengths of the sides of a 30°, 60°, 90° triangle and a 45°, 45°, 90° triangle? How can you find the leg of a right triangle when you know the other leg and one acute angle? How can you find the lengths of the sides of a right triangle when you are given the length of the hypotenuse and once acute angle? In a right triangle, how can you find all the sides and angles of the triangle? How do you find the area of a regular polygon?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 9.3 The Converse of the Pythagorean Theorem</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use the Converse of the Pythagorean Theorem to solve problems</li> <li>Use side lengths to classify triangles by their angle measures</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.SRT. 4, 8 G.GPE. 7
			<b>Time Frame:</b> 1-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 9			
<b>Theme:</b> Right Triangles and Trigonometry			
<b>Essential Questions:</b> How can you find the length of the altitude to the hypotenuse of a right triangle? If you know the lengths of two sides of a right triangle, how do you find the length of the third side? How can you use the sides of a triangle to determine if it is right? How do you find the lengths of the sides of a 30°, 60°, 90° triangle and a 45°, 45°, 90° triangle? How can you find the leg of a right triangle when you know the other leg and one acute angle? How can you find the lengths of the sides of a right triangle when you are given the length of the hypotenuse and once acute angle? In a right triangle, how can you find all the sides and angles of the triangle? How do you find the area of a regular polygon?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 9.4 Special Right Triangles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find the side lengths of special right triangles</li> <li>Use special right triangles to solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.SRT. 6
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad



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<b>CONTENT:</b> Chapter 9			
<b>Theme:</b> Right Triangles and Trigonometry			
<b>Essential Questions:</b> How can you find the length of the altitude to the hypotenuse of a right triangle? If you know the lengths of two sides of a right triangle, how do you find the length of the third side? How can you use the sides of a triangle to determine if it is right? How do you find the lengths of the sides of a 30°, 60°, 90° triangle and a 45°, 45°, 90° triangle? How can you find the leg of a right triangle when you know the other leg and one acute angle? How can you find the lengths of the sides of a right triangle when you are given the length of the hypotenuse and once acute angle? In a right triangle, how can you find all the sides and angles of the triangle? How do you find the area of a regular polygon?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 9.5 Trigonometric Ratios</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find the sine, cosine and tangent of an acute angle</li> <li>Use trigonometric ratios to solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.SRT. 6, 7, 8, 9
			<b>Time Frame:</b> 4-5 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 9			
<b>Theme:</b> Right Triangles and Trigonometry			
<b>Essential Questions:</b> How can you find the length of the altitude to the hypotenuse of a right triangle? If you know the lengths of two sides of a right triangle, how do you find the length of the third side? How can you use the sides of a triangle to determine if it is right? How do you find the lengths of the sides of a 30°, 60°, 90° triangle and a 45°, 45°, 90° triangle? How can you find the leg of a right triangle when you know the other leg and one acute angle? How can you find the lengths of the sides of a right triangle when you are given the length of the hypotenuse and once acute angle? In a right triangle, how can you find all the sides and angles of the triangle? How do you find the area of a regular polygon?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 9.6 Solving Right Triangles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Solve a right triangle</li> <li>Use right triangles to solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.SRT. 8 9.2.12.C.1
			<b>Time Frame:</b> 3-4 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 9			
<b>Theme:</b> Right Triangles and Trigonometry			
<b>Essential Questions:</b> How can you find the length of the altitude to the hypotenuse of a right triangle? If you know the lengths of two sides of a right triangle, how do you find the length of the third side? How can you use the sides of a triangle to determine if it is right? How do you find the lengths of the sides of a 30°, 60°, 90° triangle and a 45°, 45°, 90° triangle? How can you find the leg of a right triangle when you know the other leg and one acute angle? How can you find the lengths of the sides of a right triangle when you are given the length of the hypotenuse and once acute angle? In a right triangle, how can you find all the sides and angles of the triangle? How do you find the area of a regular polygon?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 11.2 Area of Regular Polygons</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find the area of an equilateral triangle</li> <li>Find the area of a regular polygon</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.SRT. 8
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 6			
<b>Theme:</b> Quadrilaterals			
<b>Essential Questions:</b> How do you classify polygons? How do you find the missing angle measures of a convex polygon? How do you find angles and side measures in a parallelogram? How can you prove that a quadrilateral is a parallelogram? What are the properties of parallelograms that have all sides or all angles congruent? What are the main properties of trapezoids and kites? How can you identify special quadrilaterals?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 6.1 Polygons</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify, name, and describe polygons</li> <li>Use the sum of the measures of the interior angles of a quadrilaterals</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GMD.4 G.MG.1
			<b>Time Frame:</b> 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 6			
<b>Theme:</b> Quadrilaterals			
<b>Essential Questions:</b> How do you classify polygons? How do you find the missing angle measures of a convex polygon? How do you find angles and side measures in a parallelogram? How can you prove that a quadrilateral is a parallelogram? What are the properties of parallelograms that have all sides or all angles congruent? What are the main properties of trapezoids and kites? How can you identify special quadrilaterals?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 11.1 Angle Measures in Polygons</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Write the equations of circles</li> <li>Use the equation of a circle and its graph to solve problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GPE.1
			<b>Time Frame:</b> 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 6			
<b>Theme:</b> Quadrilaterals			
<b>Essential Questions:</b> How do you classify polygons? How do you find the missing angle measures of a convex polygon? How do you find angles and side measures in a parallelogram? How can you prove that a quadrilateral is a parallelogram? What are the properties of parallelograms that have all sides or all angles congruent? What are the main properties of trapezoids and kites? How can you identify special quadrilaterals?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 6.2 Properties of Parallelograms</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify, name, and describe polygons</li> <li>Use the sum of the measures of the interior angles of a quadrilaterals</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.11 G.SRT.5
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 6			
<b>Theme:</b> Quadrilaterals			
<b>Essential Questions:</b> How do you classify polygons? How do you find the missing angle measures of a convex polygon? How do you find angles and side measures in a parallelogram? How can you prove that a quadrilateral is a parallelogram? What are the properties of parallelograms that have all sides or all angles congruent? What are the main properties of trapezoids and kites? How can you identify special quadrilaterals?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 6.3 Proving Quadrilaterals are parallelograms</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Prove that a quadrilateral is a parallelogram</li> <li>Use coordinate geometry with parallelograms</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.11 G.SRT.5
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 6			
<b>Theme:</b> Quadrilaterals			
<b>Essential Questions:</b> How do you classify polygons? How do you find the missing angle measures of a convex polygon? How do you find angles and side measures in a parallelogram? How can you prove that a quadrilateral is a parallelogram? What are the properties of parallelograms that have all sides or all angles congruent? What are the main properties of trapezoids and kites? How can you identify special quadrilaterals?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 6.4 Rhombuses, Rectangles, and Squares</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use properties of sides and angles of rhombuses, rectangles, and squares.</li> <li>Use properties of diagonals of rhombuses, rectangles and squares</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.11 G.SRT.5 G.GPE.7  <b>Time Frame:</b> 2-3 days  <b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad



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<b>CONTENT:</b> Chapter 6			
<b>Theme:</b> Quadrilaterals			
<b>Essential Questions:</b> How do you classify polygons? How do you find the missing angle measures of a convex polygon? How do you find angles and side measures in a parallelogram? How can you prove that a quadrilateral is a parallelogram? What are the properties of parallelograms that have all sides or all angles congruent? What are the main properties of trapezoids and kites? How can you identify special quadrilaterals?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 6.5 Trapezoids and Kites</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use properties of trapezoids</li> <li>Use properties of kites</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.SRT.5 G.GPE.4
			<b>Time Frame:</b> 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 6			
<b>Theme:</b> Quadrilaterals			
<b>Essential Questions:</b> How do you classify polygons? How do you find the missing angle measures of a convex polygon? How do you find angles and side measures in a parallelogram? How can you prove that a quadrilateral is a parallelogram? What are the properties of parallelograms that have all sides or all angles congruent? What are the main properties of trapezoids and kites? How can you identify special quadrilaterals?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 6.6 Special Quadrilaterals</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify special quadrilaterals based on limited information</li> <li>Prove that a quadrilateral is a special type of quadrilateral</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.11
			<b>Time Frame:</b> Honors Only – 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 6			
<b>Theme:</b> Quadrilaterals			
<b>Essential Questions:</b> How do you classify polygons? How do you find the missing angle measures of a convex polygon? How do you find angles and side measures in a parallelogram? How can you prove that a quadrilateral is a parallelogram? What are the properties of parallelograms that have all sides or all angles congruent? What are the main properties of trapezoids and kites? How can you identify special quadrilaterals?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 6.7 Areas of Triangles and Quadrilaterals</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find the areas of squares, rectangles, parallelograms, and triangles</li> <li>Find the areas of trapezoids, kites, and rhombuses</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GMD 1
			<b>Time Frame:</b> 1-2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 7			
<b>Theme:</b> Transformations			
<b>Essential Questions:</b> How do you translate a figure in the coordinate plane? When does a figure have line symmetry? How do you reflect a figure in the coordinate plane? How do you rotate a figure about the origin? When does a figure have rotational symmetry? What is a glide reflection?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 7.1 Rigid Motion in a Plane</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify the three basic rigid transformations</li> <li>Use transformations in real-life situations</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.4 G.CO.5 9.3.ST-ET.1  <b>Time Frame:</b> 3 days  <b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 7			
<b>Theme:</b> Transformations			
<b>Essential Questions:</b> How do you translate a figure in the coordinate plane? When does a figure have line symmetry? How do you reflect a figure in the coordinate plane? How do you rotate a figure about the origin? When does a figure have rotational symmetry? What is a glide reflection?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 7.2 Reflections</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify and use reflection in a plane</li> <li>Identify relationships between reflections and line symmetry</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.3, 4, 5
			<b>Time Frame:</b> 1-2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 7			
<b>Theme:</b> Transformations			
<b>Essential Questions:</b> How do you translate a figure in the coordinate plane? When does a figure have line symmetry? How do you reflect a figure in the coordinate plane? How do you rotate a figure about the origin? When does a figure have rotational symmetry? What is a glide reflection?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 7.3 Rotations</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify rotations in the plane</li> <li>Use rotational symmetry in real-life situations</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.3, 4, 5
			<b>Time Frame:</b> 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 7			
<b>Theme:</b> Transformations			
<b>Essential Questions:</b> How do you translate a figure in the coordinate plane? When does a figure have line symmetry? How do you reflect a figure in the coordinate plane? How do you rotate a figure about the origin? When does a figure have rotational symmetry? What is a glide reflection?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 7.4 Translations and Vectors</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify and use translations in the plane</li> <li>Use vectors in real-life situations</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.3, 4, 5
			<b>Time Frame:</b> 1-2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 7			
<b>Theme:</b> Transformations			
<b>Essential Questions:</b> How do you translate a figure in the coordinate plane? When does a figure have line symmetry? How do you reflect a figure in the coordinate plane? How do you rotate a figure about the origin? When does a figure have rotational symmetry? What is a glide reflection?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 7.5 Glide Reflections and Compositions</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify glide reflections in a plane</li> <li>Represent transformations as compositions of simpler transformations.</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.3, 4, 5
			<b>Time Frame:</b> 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad



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<b>CONTENT:</b> Chapter 10			
<b>Theme:</b> Circles			
<b>Essential Questions:</b> How can you verify that a segment is tangent to a circle? How do you find the measure of an arc of a circle? How can you tell if two chords in a circle are congruent? How do you find the measure of an inscribed angle? What do you need to know to write the standard equation of a circle? How do you find the length of an arc of a circle? How do you find the area of a sector of a circle?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 10.1 Tangents to Circles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Identify segments and lines related to circles</li> <li>Use properties of a tangent to a circle</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.1, 2 G.C.4
			<b>Time Frame:</b> 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 10			
<b>Theme:</b> Circles			
<b>Essential Questions:</b> How can you verify that a segment is tangent to a circle? How do you find the measure of an arc of a circle? How can you tell if two chords in a circle are congruent? How do you find the measure of an inscribed angle? What do you need to know to write the standard equation of a circle? How do you find the length of an arc of a circle? How do you find the area of a sector of a circle?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 10.2 Arcs and Chords</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use properties of arcs of circles</li> <li>Use properties of chords of circles</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.CO.1, 12 G.C.2, 3
			<b>Time Frame:</b> 3-4 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 10			
<b>Theme:</b> Circles			
<b>Essential Questions:</b> How can you verify that a segment is tangent to a circle? How do you find the measure of an arc of a circle? How can you tell if two chords in a circle are congruent? How do you find the measure of an inscribed angle? What do you need to know to write the standard equation of a circle? How do you find the length of an arc of a circle? How do you find the area of a sector of a circle?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 10.3 Inscribed Angles</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use inscribed angles to solve problems</li> <li>Use properties of inscribed polygons</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.C.2, 3, 4, 5
			<b>Time Frame:</b> 3-4 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 10			
<b>Theme:</b> Circles			
<b>Essential Questions:</b> How can you verify that a segment is tangent to a circle? How do you find the measure of an arc of a circle? How can you tell if two chords in a circle are congruent? How do you find the measure of an inscribed angle? What do you need to know to write the standard equation of a circle? How do you find the length of an arc of a circle? How do you find the area of a sector of a circle?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 10.6 Equations of Circle</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Write the equations of circles</li> <li>Use the equation of a circle and its graph to solve problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GPE.1
			<b>Time Frame:</b> 1-2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 10			
<b>Theme:</b> Circles			
<b>Essential Questions:</b> How can you verify that a segment is tangent to a circle? How do you find the measure of an arc of a circle? How can you tell if two chords in a circle are congruent? How do you find the measure of an inscribed angle? What do you need to know to write the standard equation of a circle? How do you find the length of an arc of a circle? How do you find the area of a sector of a circle?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 11.4 Circumference and Arc Length</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find the circumference of a circle and the length of a circular arc.</li> <li>Use circumference and arc length to solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.C.5 G.GMD.1
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 10			
<b>Theme:</b> Circles			
<b>Essential Questions:</b> How can you verify that a segment is tangent to a circle? How do you find the measure of an arc of a circle? How can you tell if two chords in a circle are congruent? How do you find the measure of an inscribed angle? What do you need to know to write the standard equation of a circle? How do you find the length of an arc of a circle? How do you find the area of a sector of a circle?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 11.5 Areas of Circles and Sectors</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find the area of a circle and a sector of a circle</li> <li>Use areas of circles and sectors to solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4  NJSLS MA 9-12 G.C.5  <b>Time Frame:</b> 2-3 days  <b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 12			
<b>Theme:</b> Surface Area and Volume			
<b>Essential Questions:</b> What is a solid a polyhedron? What is the surface area of prisms, cylinders, pyramids, cones and spheres? What is the volume of prisms, cylinders, pyramids, cones and spheres? If two solids are similar, what is the ratio of their surface area and what is the ratio of their volumes?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 12.1 Explore Solids</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use properties of polyhedral</li> <li>Use Euler's Theorem in real-life situation</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GMD.4
			<b>Time Frame:</b> 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 12			
<b>Theme:</b> Exploring Solids			
<b>Essential Questions:</b> What is a solid a polyhedron? What is the surface area of prisms, cylinders, pyramids, cones and spheres? What is the volume of prisms, cylinders, pyramids, cones and spheres? If two solids are similar, what is the ratio of their surface area and what is the ratio of their volumes?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 12.2 Surface Area of Prisms and Cylinders</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find the surface area of a prism</li> <li>Find the surface area of a cylinder</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GMD.1, 3, 4
			<b>Time Frame:</b> 2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad



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<b>CONTENT:</b> Chapter 12			
<b>Theme:</b> Exploring Solids			
<b>Essential Questions:</b> What is a solid a polyhedron? What is the surface area of prisms, cylinders, pyramids, cones and spheres? What is the volume of prisms, cylinders, pyramids, cones and spheres? If two solids are similar, what is the ratio of their surface area and what is the ratio of their volumes?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 12.3 Surface Area of Pyramids and Cones</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find the surface area of a pyramids</li> <li>Find the surface area of a cones</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GMD.1, 3, 4
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 12			
<b>Theme:</b> Exploring Solids			
<b>Essential Questions:</b> What is a solid a polyhedron? What is the surface area of prisms, cylinders, pyramids, cones and spheres? What is the volume of prisms, cylinders, pyramids, cones and spheres? If two solids are similar, what is the ratio of their surface area and what is the ratio of their volumes?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 12.4 Volume of Prisms and Cylinders</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Use volume postulates</li> <li>Find the volume of prisms and cylinders in real-life</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GMD.1, 3, 4
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 12			
<b>Theme:</b> Exploring Solids			
<b>Essential Questions:</b> What is a solid a polyhedron? What is the surface area of prisms, cylinders, pyramids, cones and spheres? What is the volume of prisms, cylinders, pyramids, cones and spheres? If two solids are similar, what is the ratio of their surface area and what is the ratio of their volumes?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 12.5 Volume of Pyramids and Cones</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find the volume of pyramids and cones</li> <li>Find the volume of pyramids and cones in real-life</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GMD.1, 3, 4
			<b>Time Frame:</b> 2-3 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 12			
<b>Theme:</b> Exploring Solids			
<b>Essential Questions:</b> What is a solid a polyhedron? What is the surface area of prisms, cylinders, pyramids, cones and spheres? What is the volume of prisms, cylinders, pyramids, cones and spheres? If two solids are similar, what is the ratio of their surface area and what is the ratio of their volumes?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 12.6 Surface area and Volume of Spheres</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find the surface area of spheres</li> <li>Find the volume of spheres in real-life</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GMD.1, 3, 4
			<b>Time Frame:</b> 1-2 days
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad

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<b>CONTENT:</b> Chapter 12			
<b>Theme:</b> Exploring Solids			
<b>Essential Questions:</b> What is a solid a polyhedron? What is the surface area of prisms, cylinders, pyramids, cones and spheres? What is the volume of prisms, cylinders, pyramids, cones and spheres? If two solids are similar, what is the ratio of their surface area and what is the ratio of their volumes?			
<b>Content</b> <i>(As a result of this learning segment, students will know...)</i>  <ul style="list-style-type: none"> <li>Section 12.7 Similar Solids</li> </ul>	<b>Skills</b> <i>(As a result of this learning segment, students will be able to...)</i>  <ul style="list-style-type: none"> <li>Find and use the scale factor of similar solids</li> <li>Use similar solids to solve real-life problems</li> </ul>	<b>Assessments</b> (The above Essential Questions will be assessed with the following formative and summative measures:)  <ul style="list-style-type: none"> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	<b>Standards:</b> TECH 8.1.12.A.CS1, 8.1.12.A.4 NJSLS MA 9-12 G.GMD.3
			<b>Time Frame:</b> Honors Only – 1 day
			<b>Materials:</b> Textbook: 2004 <i>McDougal Littell</i> Geometry by Larson, ISBN: 0-618-25023-9  Graphing calculators: Ti-83/84 plus.  Smart board, internet research and activities, graph papers, color pencils.  Geometer's Sketchpad