# Geometry RC Curriculum Guide

Pacing Guide 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.	Unit 1 (Chapter 1): Basics of Geometry. 2-3 weeksUnit 2 (Chapter 2): Reasoning and Proof. 2 weeksUnit 3 (Chapter 3): Perpendicular and Parallel Lines. 2-3 weeksUnit 4 (Chapter 4): Congruent Triangles. 2 weeks
	Unit 5 (Chapter 5): Properties of Triangles. 2-3 weeks
	Unit 6 (Chapter 6): Similarity. 3 weeks
	Unit 7 (Chapter 7): Right Triangles and Trigonometry. 1-2 weeks
	Unit 8 (Chapter 8): Quadrilaterals. Regular: 2-3 weeks
	Unit 9 (Chapter 9): Transformations. 2 weeks
	Unit 10 (Chapter 10): Circles. 3 weeks
	Unit 11 (Chapter 11): Area of Polygons and Circles. 1 week
	Unit 12 (Chapter 12): Surface Area and Volume. 3 weeks

<b>21<sup>st</sup> Century Skills Standards:</b> <b>9.1</b> Personal Finance Literacy	9.1.12.C.1: Review career goals and determine steps necessary for attainment.
Joint Personal Phanee Enteracy	
9.2 Career Awareness	<b>9.2.12.BM.1:</b> Utilize mathematical concepts, skills and problem solving to obtain necessary information for decision-making in business.
	<b>9.2.ST.2:</b> Use technology to acquire, manipulate, analyze and report data.
Technology Standards	<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.
	8.1.12.A.CS1: Understand and use technology systems.
Interdisciplinary Connections	Sciences:
	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. (Chemical bonding and molecular geometry)
NJSLS Mathematical Practices –	1. Make sense of problems and persevere in solving them.
These practices are demonstrated	2. Reason abstractly and quantitatively.
throughout the curriculum.	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.
NISLS Career Ready Practices –	CRP2 Apply appropriate academic and technical skills
These practices are demonstrated	CRP4. Communicate clearly and effectively and with reason.
throughout the curriculum	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.

# 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
<ul> <li>(content, process, product and learning environment)</li> <li>Extension Activities: <ul> <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> </li> </ul>	<ul> <li>Modifications for Classroom:</li> <li>Modifications for Homework/Assignments.</li> <li>Modified assignments.</li> <li>Extended time for assignment completion as needed.</li> <li>Use graphing calculator.</li> <li>Highlight formulas.</li> </ul>	<ul> <li>(appropriate accommodations, instructional adaptations, and/or modifications as determined by the IEP or 504 team)</li> <li>Modifications for Classroom: <ul> <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> </ul> </li> </ul>	<ul> <li>Modifications for Classroom:</li> <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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<ul> <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>	<ul> <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>
Modifications for Homework	Modifications for Homework
<ul> <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>	<ul> <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>
Modification for Assessments	Modification for Assessments
<ul> <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> <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>

<b>CONTENT:</b> Chapter 1/2			
Theme: Basics of Geometry			
Essential Questions:			
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 i	s acute, right, obtuse, or straight?		
How do you identify complementary an	d supplementary angles?		
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
• Section 2.1 Patterns and Inductive	<ul> <li>Find and describe patterns</li> </ul>	measures:)	
Reasoning	• Use inductive reasoning to make		NJSLS MA 9-12
	real-life conjecture	Homework	G.CO.9, 10, 11
		• Warm up exercises	Time Frame:
		Exit Tickets	Geometry RC: 1 day
		Group activities	
		Section quizzes	
		Chapter tests	
		Cumulative tests	Motorials:
		Projects / Presentations	Textbook: 2007 McDougal Littell
		• Midterm exam	Geometry by Larson ISBN: 0-618-
		• Final Exam	25023-9
			25025-)
			Graphing calculators: Ti-83/84 plus.
			Smart board, internet research and activities, graph papers, color pencils.
1			

<b>CONTENT:</b> Chapter 1			
Theme: Basics of Geometry			
<ul> <li>CONTENT: Chapter 1</li> <li>Theme: Basics of Geometry</li> <li>Essential Questions:</li> <li>How do you use inductive reasoning in How do you name geometric figures?</li> <li>What are congruent segments?</li> <li>How do you identify whether an angle How do you identify whether an angle How do you identify complementary an Content (As a result of this learning segment, students will know)</li> <li>Section 1.1 Points, Lines, and Planes</li> </ul>	<ul> <li>mathematics?</li> <li>is acute, right, obtuse, or straight?</li> <li>ind supplementary angles?</li> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Understand and use the basic undefined terms and defined terms of geometry.</li> <li>Sketch the intersection of lines</li> </ul>	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) • Homework • Warm up exercises	<b>Standards:</b> TECH 8.1.12.A.4, 8.1.12.A.CS1 NJSLS MA 9-12G.CO.1 <b>Time Frame:</b>
	and planes	<ul> <li>Wallin 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>	Materials:         Textbook: 2004 McDougal Littell         Geometry by Larson, ISBN: 0-618-         25023-9         Graphing calculators: Ti-83/84 plus.         Smart board, internet research and activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 1			
Theme: Basics of Geometry			
Essential Questions:			
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 an	nd supplementary angles?		
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
• Section 1.2 Segments and Their	<ul> <li>Use segment postulates</li> </ul>	measures:)	
Measures	• Use the Distance Formula to		NJSLS MA 9-12G.CO.1, 7
• Section 1.3 Midpoint and	measure distance	Homework	
Distance Formula		• Warm up exercises	Time Frame:
		Exit Tickets	Geometry RC: 2 day
		Group activities	
		Section quizzes	
		Chapter tests	
		Cumulative tests	Matarials:
		Projects / Presentations	Textbook: 2007 McDougal Littell
		Midterm exam	Geometry by Larson ISBN: 0-618-
		• Final Exam	25023-9
			25025-7
			Graphing calculators: Ti-83/84 plus
			Stupining culculators. If 05/01 plus.
			Smart board, internet research and
			activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 1			
<b>Theme:</b> Basics of Geometry			
Essential Questions:			
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 an	nd supplementary angles?		
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
• Section 1.4 Angles and Their	• Use angle postulates	measures:)	
Measures	• Classify angles as acute, right,		NJSLS MA 9-12G.CO.1,7,12
	obtuse, or straight	Homework	
		• Warm up exercises	
		• Exit Tickets	Time Frame:
		Group activities	Geometry RC: 2 day
		Section quizzes	
		Chapter tests	
		Cumulative tests	
		Projects / Presentations	Materials:
		Midterm exam	Textbook: 2007 McDougal Littell
		Final Exam	Geometry by Larson, ISBN: 0-618-
			25023-9
			Graphing calculators: Ti-83/84 plus.
			Smart board, internet research and
			activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 1			
Theme: Basics of Geometry			
Essential Questions:			
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	nd supplementary angles?		
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
• Section 1.5 Segment and Angle	Bisect a segment	measures:)	
Bisectors	• Bisect an angle		NJSLS MA 9-12G.CO.1,7,12
		Homework	
		• Warm up exercises	
		Exit Tickets	Time Frame:
		Group activities	Geometry RC : 2 day
		Section quizzes	
		Chapter tests	
		Cumulative tests	
		<ul> <li>Projects / Presentations</li> </ul>	Materials:
		Midterm exam	Textbook: 2007 McDougal Littell
		Final Exam	Geometry by Larson, ISBN: 0-618-
			25023-9
			Graphing calculators: Ti-83/84 plus.
			Smart board, internet research and
			activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 1			
Theme: Basics of Geometry			
Essential Questions:			
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	nd supplementary angles?		
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
• Section 1.5 Angle Pair	• Identify vertical angles and linear	measures:)	
Relationships	pairs		NJSLS MA 9-12G.CO.1,9
	• Identify complementary and	Homework	
	supplementary angles	• Warm up exercises	
		Exit Tickets	Time Frame:
		Group activities	Geometry RC: 2 day
		Section quizzes	
		Chapter tests	
		Cumulative tests	
		Projects / Presentations	Materials:
		Midterm exam	Textbook: 2007 McDougal Littell
		Final Exam	Geometry by Larson, ISBN: 0-618-
			25023-9
			Graphing calculators: Ti-83/84 plus.
			_
			Smart board, internet research and
			activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 1			
Theme: Basics of Geometry			
Essential Questions:			
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 i	s acute, right, obtuse, or straight?		
How do you identify complementary an	d supplementary angles?		
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
<ul> <li>Section 1.7 Introduction to</li> </ul>	• Find the perimeter and area of	measures:)	
Perimeter, Circumference, and	common plane figures		NJSLS MA 9-12G.GMD 1
Area	• Use general problem-solving	Homework	
	plan`	Warm up exercises	
		Exit Tickets	Time Frame:
		Group activities	Geometry RC: 2 day
		Section guizzes	
		Chapter tests	
		Cumulative tests	
		Projects / Presentations	Matariala
		Midterm exam	Materials: Textbook: 2007 MaDougal Littall
		<ul> <li>Final Exam</li> </ul>	Comparing by Longon JSDN: 0.618
			Geometry by Laison, ISBN, 0-018-
			23023-9
			Graphing calculators: Ti 83/84 plus
			Graphing calculators. 11-65/64 plus.
			Smart board internet research and
			activities graph papers color pencils
			activities, gruph pupers, color penens.

Skills       Skills       Assessments       Standards:         Reserver of the segment, students will know)       •       Recognize and analyze a Diagrams       •       Recognize and analyze a conditional statement       •         •       Section 2.4 Use Postulates and Diagrams       •       Recognize and analyze a conditional statement       •       Recognize and analyze a conditional statement       NJSLS MA 9-12
Essential Questions:         How do you write a converse, inverse and contrapositive statement?         How do you write a bi conditional statement?         How do you construct a logical argument?         How do you solve an equation?         How do you write a geometric proof?         Content (As a result of this learning segment, students will know)       Skills (As a result of this learning segment, students will be able to)       Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)       Standards:         • Section 2.4 Use Postulates and Diagrams       • Recognize and analyze a conditional statement       measures:)       NJSLS MA 9-12
How do you write a converse, inverse and contrapositive statement?         How do you write a bi conditional statement?         How do you construct a logical argument?         How do you solve an equation?         How do you write a geometric proof?         Content (As a result of this learning segment, students will know)         • Section 2.4 Use Postulates and Diagrams         • Recognize and analyze a conditional statement         • Recognize and analyze a conditional statement             • NJSLS MA 9-12
How do you write a bi conditional statement?         How do you construct a logical argument?         How do you solve an equation?         How do you write a geometric proof?         Content (As a result of this learning segment, students will know)       Skills (As a result of this learning segment, students will be able to)       Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)       Standards:         • Section 2.4 Use Postulates and Diagrams       • Recognize and analyze a conditional statement       measures:)       NJSLS MA 9-12
How do you construct a logical argument?         How do you solve an equation?         How do you write a geometric proof?         Content (As a result of this learning segment, students will know)       Skills (As a result of this learning segment, students will be able to)       Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)       Standards:         • Section 2.4 Use Postulates and Diagrams       • Recognize and analyze a conditional statement       measures:)       NJSLS MA 9-12
How do you solve an equation?         How do you write a geometric proof?         Content (As a result of this learning segment, students will know)       Skills (As a result of this learning segment, students will be able to)       Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)       Standards:         • Section 2.4 Use Postulates and Diagrams       • Recognize and analyze a conditional statement       • Recognize and analyze a       measures:)       • NJSLS MA 9-12
How do you write a geometric proof?         Content (As a result of this learning segment, students will know)       Skills (As a result of this learning segment, students will be able to)       Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)       Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1         • Section 2.4 Use Postulates and Diagrams       • Recognize and analyze a conditional statement       measures:)       NJSLS MA 9-12
Content (As a result of this learning segment, students will know)Skills (As a result of this learning segment, students will be able to)Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1• Section 2.4 Use Postulates and Diagrams• Recognize and analyze a conditional statementmeasures:)NJSLS MA 9-12
segment, students will know)       segment, students will be able to)       Questions will be assessed with the following formative and summative measures:)       TECH         • Section 2.4 Use Postulates and Diagrams       • Recognize and analyze a conditional statement       Questions will be assessed with the following formative and summative measures:)       TECH
<ul> <li>Section 2.4 Use Postulates and Diagrams</li> <li>Recognize and analyze a conditional statement</li> <li>Following formative and summative measures:)</li> <li>Summative and summative measures:)</li> <li>NJSLS MA 9-12</li> </ul>
Section 2.4 Use Postulates and Diagrams     Diagrams     Precognize and analyze a conditional statement     measures:)     NJSLS MA 9-12     NJSLS MA 9-12
Diagrams conditional statement NJSLS MA 9-12
Section 2.2 Conditional     Write postulates about points,     Homework     G.CO.9, 10, 11
Statements lines, and planes using • Warm up exercises <b>Time Frame:</b>
conditional statements • Exit Tickets Geometry : 4 day
Group activities
Section guizzes
• Chapter tests
Cumulative tests
Projects / Presentations     Track as to 2007 M. D
Midterm exam     Generative la recent ISBN 0.619
• Final Exam Geometry by Larson, ISBN: 0-018-
23025-9
Graphing coloulators: Ti 92/94 plus
Graphing calculators: 11-85/84 plus.
Smart board internet research and
sitiat board, internet research and
activities, graph papers, color penens.

<b>CONTENT:</b> Chapter 2			
Theme: Reasoning and Proof			
Essential Questions:			
How do you write a converse, inverse a	and contrapositive statement?		
How do you write a biconditional state	ment?		
How do you construct a logical argume	ent?		
How do you solve an equation?			
How do you write a geometric proof?		T	1
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
• Section 2.2 Definitions and	Recognize and use definitions	measures:)	
Biconditional Statements	• Recognize and use biconditional		NJSLS MA 9-12
	statements	Homework	G.CO.9, 10, 11
		• Warm up exercises	
		Exit Tickets	Time Frame:
		Group activities	Geometry RC: 1 day
		Section quizzes	
		Chapter tests	
		Cumulative tests	
		Projects / Presentations	Materials:
		• Midterm exam	Textbook: 2007 McDougal Littell
		Final Exam	Geometry by Larson, ISBN: 0-618-
			25023-9
			Graphing calculators: Ti-83/84 plus.
			- î
			Smart board, internet research and
			activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 2			
Theme: Reasoning and Proof			
Essential Questions:			
How do you write a converse, inverse a	and contrapositive statement?		
How do you write a biconditional state	ment?		
How do you construct a logical argume	nt?		
How do you solve an equation?			
How do you write a geometric proof?		1	
<ul> <li>Content (As a result of this learning segment, students will know)</li> <li>Section 2.3 Deductive Reasoning</li> </ul>	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Use symbolic notation to represent logical statements</li> <li>Form conclusions by applying the laws of logic to true statements.</li> </ul>	<ul> <li>Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)</li> <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>	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1NJSLS MA 9-12 G.CO.1, 9, 10, 11Time Frame: Geometry RC: 2 dayMaterials: Textbook: 2007 McDougal Littell Geometry by Larson, ISBN: 0-618- 25023-9Graphing calculators: Ti-83/84 plus.Smart board, internet research and activities graph papers color pencils

<b>CONTENT:</b> Chapter 2					
Theme: Reasoning and Proof					
Essential Questions:					
How do you write a converse, inverse a	and contrapositive statement?				
How do you write a biconditional state	ment?				
How do you construct a logical argume	nt?				
How do you solve an equation?					
How do you write a geometric proof?					
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 2.5 Reasoning with	Use properties from algebra	measures:)			
Properties of Algebra	• Use properties of length and		NJSLS MA 9-12		
	measure to justify segment and	Homework	A.REI.1		
	angle relationships	Warm up exercises	G.CO.9, 10, 11		
		Exit Tickets	Time Frame:		
• Group activities Geometry RC: 2 day					
Section auizzes					
	Chapter tests				
		Cumulative tests			
		Projects / Presentations			
		Midterm exem	Materials:		
		• Milderin exam	Textbook: 2007 McDougal Littell		
			Geometry by Larson, ISBN: 0-618-		
			25023-9		
			Graphing calculators: T1-83/84 plus.		
			Conservation of the second sec		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 2				
Theme: Reasoning and Proof				
<b>Essential Questions:</b>	and contrapositive statement?			
How do you write a biconditional state	ment?			
How do you construct a logical argume	ent?			
How do you solve an equation?				
How do you write a geometric proof?				
Content (As a result of this learning segment, students will know) <ul> <li>Section 2.6 Proving Statements</li> </ul>	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Justify statements about</li> </ul>	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)	<b>Standards:</b> TECH 8.1.12.A.4, 8.1.12.A.CS1	
about Segments	congruent segments	,	NJSLS MA 9-12	
	• Write reasons for steps in a proof	Homework	G.CO.9, 10, 11	
		• Warm up exercises		
		• Exit Tickets	Time Frame:	
• Group activities Geometry RC: 2 day				
		• Section quizzes		
		• Chapter tests		
		• Cumulative tests		
		• Projects / Presentations	Materials:	
		• Mildterm exam	Textbook: 2004 McDougal Littell	
		• Final Exam	Geometry by Larson, ISBN: 0-618-	
			25023-9	
			Graphing calculators: Ti-83/84 plus.	
			Smart board, internet research and activities, graph papers, color pencils.	

<b>CONTENT:</b> Chapter 3					
Theme: Perpendicular and Parallel Lin	nes				
<b>Essential Questions:</b>					
What angle pairs are formed by transve	ersals?				
How are corresponding angles and alter	rnate interior angles related for two para	llel lines and a transversal?			
How do you find the slope of a line giv	en the coordinates of two points on the l	ine?			
How do you write an equation of a line	·?				
How do you find the distance between	a point and a line?				
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 3.1 Lines and Angles	• Identify relationships between	measures:)			
	lines		NJSLS MA 9-12		
	• Identify angles by transversals	Homework	<u>G.CO.1, 9</u>		
		• Warm up exercises	Time Frame:		
		Exit Tickets	Geometry RC: 2 day		
		Group activities			
		Section quizzes			
		Chapter tests			
		Cumulative tests	Materials:		
		Projects / Presentations	Textbook: 2007 McDougal Littell		
		• Midterm exam	Geometry by Larson ISBN: 0-618-		
		• Final Exam	25023-9		
2 That 2/ull 2/025-9					
Graphing calculators: Ti-83/84 plus.					
			Smart board, internet research and		
			activities, graph papers, color pencils.		

CUNTENT: Chapter 3				
Theme: Perpendicular and Parallel Lines				
Essential Questions: 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?				
Content (As a result of this learning segment, students will know)       Skills segment         • Section 3.6 Proof and Perpendicular Lines       • W         Iii       Iii	Is (As a result of this learning nent, students will be able to) Write different types of proofs Prove results about perpendicular lines	<ul> <li>Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)</li> <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>	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1NJSLS MA 9-12G.CO.1, 9Time Frame: Geometry RC: 2 dayMaterials: Textbook: 2007 McDougal Littell Geometry by Larson, ISBN: 0-618- 25023-9Graphing calculators: Ti-83/84 plus.Smart board, internet research and activities, graph papers, color pencils.	

<b>CONTENT:</b> Chapter 3	<b>CONTENT:</b> Chapter 3			
Theme: Perpendicular and Parallel Lin	nes			
<b>Essential Questions:</b> What angle pairs are formed by transve	rsals?			
How do you find the slope of a line give	thate interior angles related for two paralling the coordinates of two points on the li	lel lines and a transversal?		
How do you write an equation of a line	<sup>7</sup>			
How do you find the distance between a	a point and a line?			
<ul> <li>Content (As a result of this learning segment, students will know)</li> <li>Section 3.2 Use Parallel Lines and Transversals</li> </ul>	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Prove and use results about parallel lines and transversals</li> </ul>	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1 NISLS MA 9-12	
	<ul> <li>Use properties of parallel lines to solve real-life problems</li> </ul>	<ul><li>Homework</li><li>Warm up exercises</li></ul>	G.CO. 9	
	<b>Time Frame:</b> Geometry RC: 2 day			
		<ul> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	Materials: Textbook: 2007 <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.	

<b>CONTENT:</b> Chapter 3	<b>CONTENT:</b> Chapter 3					
Theme: Perpendicular and Parallel Lin	nes					
Essential Questions:						
What angle pairs are formed by transve	ersals?					
How are corresponding angles and alte	rnate interior angles related for two paral	lel lines and a transversal?				
How do you find the slope of a line giv	en the coordinates of two points on the li	ne?				
How do you write an equation of a line	?					
How do you find the distance between	a point and a line?					
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:			
segment, students will know)	segment, students will be able to)	Questions will be assessed with the				
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1			
• Section 3.3 Proving Lines are	• Prove that two lines are parallel	measures:)				
Parallel	Construct parallel lines using	<b>TT</b> 1	NJSLS MA 9-12			
	straightedge and compass	• Homework	G.CO. 9			
	• Use properties of parallel lines to	• Warm up exercises	Time Frame:			
	solve real-life problems.	• Exit Tickets	Geometry: 2 day			
		Group activities				
		• Section quizzes				
		Chapter tests				
		Cumulative tests	Materials:			
		Projects / Presentations	Textbook: 2007 McDougal Littell			
		Midterm exam	Geometry by Larson, ISBN: 0-618-			
		Final Exam	25023-9			
	Graphing calculators: Ti-83/84 plus.					
			Smart board, internet research and			
			activities, graph papers, color pencils.			

CONTENT: Chapter 3				
Theme: Perpendicular and Parallel Lin	es			
Essential Questions:         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?         Content       (As a result of this learning         Skills       (As a result of this learning)				
<ul> <li>segment, students will know)</li> <li>Section 3.4 Parallel and Perpendicular Lines in the Coordinate Plane</li> <li>Section 3.5 Write and Graph Equations of Lines</li> </ul>	<ul> <li>segment, students will be able to)</li> <li>Find slopes of lines and use slope to identify parallel and perpendicular lines in a coordinate plane.</li> <li>Write equations of parallel lines in a coordinate plane.</li> </ul>	Questions will be assessed with the following formative and summative measures:)  Homework Warm up exercises Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam	TECH 8.1.12.A.4, 8.1.12.A.CS1 NJSLS MA 9-12 G.GPE.5 A.CED.2 G.CO.9, 12 <b>Time Frame:</b> Geometry RC: 4 day <b>Materials:</b> Textbook: 2007 <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.	

<b>CONTENT:</b> Chapter 4	CONTENT: Chapter 4			
Theme: Congruent Triangles				
<ul> <li>Essential Questions:</li> <li>How can you find the measure of the the What are congruent figures?</li> <li>How can you use side lengths to prove How can you use two sides and an angle How can you use congruent triangles to How are the sides and angles of a trianges of a trianges of a trianges and angles of a trianges and the students will know)</li> <li>Section 4.1 Triangles and Angles</li> </ul>	<ul> <li>and angle of a triangle if you know the matriangles congruent?</li> <li>be to prove triangles are congruent?</li> <li>c) prove angles or sides congruent?</li> <li>gle related if there are two or more congright of this learning segment, students will be able to)</li> <li>Classify triangles by their sides</li> </ul>	uent sides or angles? Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)	<b>Standards:</b> TECH 8.1.12.A.4, 8.1.12.A.CS1	
	<ul><li>and angles</li><li>Find angle measure in triangles</li></ul>	<ul> <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>	NJSLS MA 9-12 G.CO.10 <b>Time Frame:</b> Geometry RC: 2 day <b>Materials</b> : Textbook: 2007 <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.	

Essential Questions: 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 can you use congruent triangles to prove angles or sides congruent?				
Asses <i>s will be able to)</i> <i>g parts</i> <i>y</i> triangles are <i>Asses</i> Quest follow measu <i>y</i> triangles are <i>Asses</i> <i>Quest</i> <i>follow</i> <i>measu</i> <i>y</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>measu</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follow</i> <i>follo</i>	essments (The above Essential stions will be assessed with the owing formative and summative sures:) Homework Warm up exercises Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1NJSLS MA 9-12 G.CO.7Time Frame: Geometry RC: 2 dayMaterials: Textbook: 2007 McDougal Littell Geometry by Larson, ISBN: 0-618- 25023-9Graphing calculators: Ti-83/84 plus.Smart board, internet research and activities, graph papers, color pencils.		
	gle if you know the measure t? s are congruent? des congruent? are two or more congruent si ilt of this learning s will be able to) Ques follo gruent figures and g parts to triangles are	gle if you know the measure of the other two angles? t? s are congruent? are two or more congruent sides or angles? It of this learning s will be able to) fruent figures and g parts ro triangles are • Homework • Warm up exercises • Exit Tickets • Group activities • Section quizzes • Chapter tests • Cumulative tests • Projects / Presentations • Midterm exam • Final Exam		

<b>CONTENT:</b> Chapter 4	CONTENT: Chapter 4			
Theme: Congruent Triangles				
Theme: Congruent Triangles         Essential Questions:         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?         Content (As a result of this learning segment, students will be able to)         Skills (As a result of this learning segment, students will be able to)         Section 4.3 Proving Triangles are congruent using SSS Congruence Postulates         • Prove triangles are congruent using SSS Congruence Postulates         • Use congruent: SSS				
	• Use congruence postulates in real-life problems	<ul> <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>	Greense         Geometry: 1 day         Materials:         Textbook: 2007 McDougal Littell         Geometry by Larson, ISBN: 0-618-         25023-9         Graphing calculators: Ti-83/84 plus.         Smart board, internet research and activities, graph papers, color pencils.	

CONTENT: Chapter 4			
Theme: Congruent Triangles			
<b>Essential Questions:</b> How can you find the measure of the third What are congruent figures? How can you use side lengths to prove tri How can you use two sides and an angle t How can you use congruent triangles to p How are the sides and angles of a triangle <b>Content</b> (As a result of this learning)	rd angle of a triangle if you know the me iangles congruent? to prove triangles are congruent? prove angles or sides congruent? e related if there are two or more congru <b>Skills</b> (As a result of this learning	easure of the other two angles? The sides or angles? Assessments (The above Essential	Standards:
Content (As a result of this learning segment, students will know)       S         • Section 4.4 Proving Triangles are Congruent: SAS and HL       •	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Prove that triangles are congruent using the SAS Congruence Postulate and the HL Congruence Theorem</li> <li>Use congruence postulates and theorems in real-life problems</li> </ul>	<ul> <li>Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)</li> <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>	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1 NJSLS MA 9-12 G.CO.8, 10, 12 Time Frame: Geometry RC: 2 day Materials: Textbook: 2007 <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.

<b>CONTENT:</b> Chapter 4				
Theme: Congruent Triangles				
Essential Questions:				
How can you find the measure of the th	hird angle of a triangle if you know the me	easure 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 angl	e 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 triang	gle related if there are two or more congru	uent sides or angles?		
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:	
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH	
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1	
• Section 4.5 Prove Triangles	• Use ASA and AAS Congruence	measures:)		
Congruent by ASA and AAS	Postulate to plan and write proofs	<b>TT</b>	NJSLS MA 9-12	
• Section 4.6 Use Congruent	• Use congruent triangles to prove	• Homework	G.CO. 10, 12	
Triangles	constructions are valid	• Warm up exercises	Lime Frame:	
		• Exit Tickets	Geometry RC: 2 day	
		Group activities		
		Section quizzes		
		Chapter tests		
		Cumulative tests	Materials:	
		<ul> <li>Projects / Presentations</li> </ul>	Textbook: 2007 McDougal Littell	
		Midterm exam	Geometry by Larson, ISBN: 0-618-	
		Final Exam	25023-9	
			Graphing calculators: Ti-83/84 plus.	
			Smart board, internet research and	
			activities, graph papers, color pencils.	

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angle of a triangle if you know the me ngles congruent? prove triangles are congruent? ove angles or sides congruent? related if there are two or more congruent	easure of the other two angles?	
<b>sills</b> (As a result of this learning	Assessments (The above Essential	Standards:
gment, students will be able to) Place geometric figures in a coordinate plane Write a coordinate proof	Questions will be assessed with the following formative and summative measures:) • Homework • Warm up exercises • Exit Tickets • Group activities • Section quizzes • Chapter tests • Cumulative tests • Projects / Presentations • Midterm exam • Final Exam	TECH 8.1.12.A.4, 8.1.12.A.CS1 NJSLS MA 9-12 G.CO. 10 Time Frame: Geometry: 2 day Materials: Textbook: 2007 <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.
	ngle of a triangle if you know the me gles congruent? prove triangles are congruent? lated if there are two or more congru lated if there are two or more congru ls (As a result of this learning ment, students will be able to) Place geometric figures in a coordinate plane Write a coordinate proof	ngle of a triangle if you know the measure of the other two angles? gles congruent? prove triangles are congruent? lated if there are two or more congruent sides or angles? Ils (As a result of this learning ment, students will be able to) Place geometric figures in a coordinate plane Write a coordinate proof Write a coordinate proof • Homework • Warm up exercises • Exit Tickets • Group activities • Section quizzes • Chapter tests • Cumulative tests • Projects / Presentations • Midterm exam • Final Exam

CONTENT: Chapter 5			
<b>Theme:</b> Properties of Triangles			
Essential Questions:			
How do you find the point of concurrent	ncy of the perpendicular bisectors of the s	sides of a triangle?	
How do you find the centroid of a trian	gle?		
How do you write a coordinate proof?	6		
How do you find the possible lengths o	f the third side of a triangle if you know	the lengths of two sides?	
What is the first step in writing an indir	ect proof?	6	
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
Section 5.2 Perpendiculars and Bisectors	<ul> <li>Use properties of perpendicular bisectors.</li> <li>Use properties of angle bisectors to identify equal distances</li> </ul>	<ul> <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>	NJSLS MA 9-12 G.CO.9, 12 G.C.3 <b>Time Frame:</b> Geometry RC: 2 day <b>Materials:</b> Textbook: 2007 <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.
			activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 5					
Theme: Properties of Triangles					
Essential Questions:					
How do you find the point of concurrent	ncy of the perpendicular bisectors of the	sides of a triangle?			
How do you find the centroid of a trian	gle?				
How do you write a coordinate proof?					
How do you find the possible lengths o	f the third side of a triangle if you know	the lengths of two sides?			
What is the first step in writing an indi	rect proof?				
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 5.3 Bisectors of a	• Use properties of perpendicular	measures:)			
Triangle	bisectors of a triangle		NJSLS MA 9-12		
	• Use properties of angle bisectors	Homework	G.CO.10		
	of a triangle	Warm up exercises	G.C.3		
		Exit Tickets	Time Frame:		
Group activities     Geometry RC: 2 day					
	Section quizzes				
		Chapter tests			
		Cumulative tests			
		Projects / Presentations	Materials <sup>.</sup>		
		• Midterm exam	Textbook: 2007 McDougal Littell		
		Final Exam	Geometry by Larson, ISBN: 0-618-		
			25023-9		
			Graphing calculators: Ti-83/84 plus.		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 5					
Theme: Properties of Triangles					
<b>Essential Questions:</b>					
How do you find the point of concurrent	ncy of the perpendicular bisectors of the	sides of a triangle?			
How do you find the centroid of a trian	gle?				
How do you write a coordinate proof?					
How do you find the possible lengths o	f the third side of a triangle if you know	the lengths of two sides?			
What is the first step in writing an indi	rect proof?				
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 5.4 Medians and	• Use properties of medians of a	measures:)			
Altitudes of a triangles	triangle		NJSLS MA 9-12		
	• Use properties of altitudes of a	Homework	G.CO.10, 12		
	triangle	• Warm up exercises			
	Exit Tickets     Time Frame:				
Group activities     Geometry RC: 2 day					
Section quizzes					
		Chapter tests			
		Cumulative tests			
		Projects / Presentations	Materials:		
		• Midterm exam	Textbook: 2007 McDougal Littell		
		Final Exam	Geometry by Larson, ISBN: 0-618-		
			25023-9		
			Graphing calculators: Ti-83/84 plus.		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 5					
Theme: Properties of Triangles					
Essential Questions:					
How do you find the point of concurrent	ncy of the perpendicular bisectors of the s	ides of a triangle?			
How do you find the centroid of a triang	gle?				
How do you write a coordinate proof?					
How do you find the possible lengths of	f the third side of a triangle if you know t	he lengths of two sides?			
What is the first step in writing an indir	ect proof?				
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 5.1 Midsegment Theorem	• Identify the midsegments of a	measures:)			
	triangle		NJSLS MA 9-12		
	• Use properties of midsegments of	Homework	G.CO.10		
	a triangle	Warm up exercises	G.GPE.4		
		Exit Tickets	Time Frame:		
	Group activities     Geometry RC: 2 day				
		Section guizzes			
		Chapter tests			
		Cumulative tests			
		Projects / Presentations	Madaniala		
		<ul> <li>Midterm exam</li> </ul>			
		• Final Exam	Textbook: 2007 McDougal Littell		
			Geometry by Larson, ISBN: 0-618-		
			25023-9		
			Graphing calculators: 11-83/84 plus.		
Smouth could intermet reasonable and					
			sinal board, internet research and		
			activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 5				
Theme: Properties of Triangles				
Essential Questions:				
How do you find the point of concurrent	ncy of the perpendicular bisectors of the	sides of a triangle?		
How do you find the centroid of a trian	gle?			
How do you write a coordinate proof?				
How do you find the possible lengths of	of the third side of a triangle if you know	the lengths of two sides?		
What is the first step in writing an indi	rect proof?			
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:	
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH	
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1	
• Section 5.5 Inequalities in One	• Use triangle measurements to	measures:)		
Triangle	decide which side is longest or		NJSLS MA 9-12	
	which angle is largest.	Homework	G.CO.7, 10	
	• Use the triangle inequality	Warm up exercises	Time Frame:	
		Exit Tickets	Geometry RC: 2 day	
		Group activities		
		Section quizzes		
		Chapter tests		
		Cumulative tests	Matarials:	
		Projects / Presentations	Textbook: 2007 McDougal Littell	
		• Midterm exam	Geometry by Larson ISBN: 0-618-	
		• Final Exam	25023-9	
23025-9				
Graphing calculators: Ti-83/84 plus.				
			Smart board, internet research and	
			activities, graph papers, color pencils.	

<b>CONTENT:</b> Chapter 5					
Theme: Properties of Triangles					
Essential Questions:					
How do you find the point of concurrent	ncy of the perpendicular bisectors of the s	sides of a triangle?			
How do you find the centroid of a trian	gle?				
How do you write a coordinate proof?					
How do you find the possible lengths o	f the third side of a triangle if you know	the lengths of two sides?			
What is the first step in writing an indi	rect proof?				
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 5.6 Indirect Proof and	• Read and write an indirect proof	measures:)			
Inequalities in Two Triangles	• Use the Hinge Theorem and its		NJSLS MA 9-12		
	converse to compare side lengths	Homework	G.CO.7, 10		
	and angle measures.	• Warm up exercises	Time Frame:		
	Exit Tickets     Geometry: 2 day				
	Group activities				
		Section quizzes			
		Chapter tests			
		Cumulative tests	Materials:		
		Projects / Presentations	Textbook: 2007 McDougal Littell		
		• Midterm exam	Geometry by Larson, ISBN: 0-618-		
		Final Exam	25023-9		
			Graphing calculators: Ti-83/84 plus.		
	Smart board, internet research and				
			activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 6					
Theme: Similarity					
Essential Questions:					
If two figures are similar, how do you f	ind the length of a missing side?				
How can you show that two triangles as	re similar?				
How do you prove that two triangles ar	e similar by using the SSS Similarity The	eorem?			
What proportions can you write if a line	e is parallel to one side of a triangle?				
How do you dilate a figure in the coord	inate plane?				
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 6.1 Ratio and Proportion	• Read and write an indirect proof	measures:)			
	• Use the Hinge Theorem and its		NJSLS MA 9-12		
	converse to compare side lengths	Homework	G.SRT. 5		
	and angle measures.	Warm up exercises			
	Exit Tickets     Time Frame:				
Group activities     Geometry RC: 2 day					
	• Section quizzes				
		Chapter tests			
		Cumulative tests			
		Projects / Presentations	Materials:		
		• Midterm exam	Textbook: 2007 McDougal Littell		
		• Final Exam	Geometry by Larson ISBN: 0-618-		
			25023-9		
			Graphing calculators: Ti-83/84 plus.		
Graphing calculators. 11-05/04 plus.					
	Smart board, internet research and				
			activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 6					
Theme: Similarity					
<b>Essential Questions:</b> If two figures are similar, how do you f How can you show that two triangles a How do you prove that two triangles ar What proportions can you write if a lin How do you dilate a figure in the coord	Find the length of a missing side? re similar? re similar by using the SSS Similarity The e is parallel to one side of a triangle? linate plane?	eorem?	Standarder		
<ul> <li>Section 6.2 Proportions to Solve Geometry Problems</li> </ul>	<ul> <li>Skills (As a result of this tearning segment, students will be able to)</li> <li>Use properties of proportions</li> <li>Use proportions to solve real-life problems.</li> </ul>	<ul> <li>Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)</li> <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>	Standards.         TECH         8.1.12.A.4, 8.1.12.A.CS1         NJSLS MA 9-12         G.SRT.4, 5         Time Frame:         Geometry RC: 2 day         Materials:         Textbook: 2007 McDougal Littell         Geometry by Larson, ISBN: 0-618-         25023-9         Graphing calculators: Ti-83/84 plus.         Smart board, internet research and activities, graph papers, color pencils.		
<b>CONTENT:</b> Chapter 6					
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Theme: Similarity					
Essential Questions:					
If two figures are similar, how do you f	Find the length of a missing side?				
How can you show that two triangles as	re similar?				
How do you prove that two triangles ar	e similar by using the SSS Similarity Th	eorem?			
What proportions can you write if a line	e is parallel to one side of a triangle?				
How do you dilate a figure in the coord	linate plane?				
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 6.3 Similar Polygons	• Identify similar polygons	measures:)			
	• Use similar polygons to solve		NJSLS MA 9-12		
	real-life problems	Homework	G.SRT.5		
		• Warm up exercises			
	• Exit Tickets Time Frame:				
Group activities     Geometry RC: 2 day					
Section quizzes					
Chapter tests					
		Cumulative tests			
		Projects / Presentations	Materials:		
		Midterm exam	Textbook: 2007 McDougal Littell		
		Final Exam	Geometry by Larson, ISBN: 0-618-		
			25023-9		
Graphing calculators: Ti-83/84 plus.					
	Smart board, internet research and				
			activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 6					
Theme: Similarity					
Essential Questions:					
If two figures are similar, how do you f	ind the length of a missing side?				
How can you show that two triangles as	re similar?				
How do you prove that two triangles ar	e similar by using the SSS Similarity Th	eorem?			
What proportions can you write if a line	e is parallel to one side of a triangle?				
How do you dilate a figure in the coord	inate plane?	1			
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 8.4 Similar Triangles	• Identify similar triangles using	measures:)			
	AA Similarity Postulate		NJSLS MA 9-12		
	• Use similar triangles to solve	Homework	G.SRT.3		
	real-life problems	Warm up exercises			
		Exit Tickets	Time Frame:		
	Geometry RC: 2 day				
Section quizzes					
		Cumulative tests			
		Projects / Presentations	Materials <sup>.</sup>		
		• Midterm exam	Textbook: 2007 McDougal Littell		
		Final Exam	Geometry by Larson, ISBN: 0-618-		
			25023-9		
			Graphing calculators: Ti-83/84 plus.		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

Theme: Similarity Essential Questions: If two figures are similar, how do you find the length of a missing side? How can you show that two triangles are similar?				
Essential Questions: If two figures are similar, how do you find the length of a missing side? How can you show that two triangles are similar?				
If two figures are similar, how do you find the length of a missing side?				
How can you show that two triangles are similar?				
Thow 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> (As a result of this learning   Skills (As a result of this learning   Assessments (The above Essential   Standards:				
segment, students will know) segment, students will be able to) Questions will be assessed with the TECH				
following formative and summative 8.1.12.A.4, 8.1.12.A.CS1				
• Section 6.5 Proving Triangles are • Use similarity theorem SSS and measures:)				
Similar SAS to prove that two triangles NJSLS MA 9-12				
are similar. • Homework U.SK1.4				
Use similar triangles to solve     warm up exercises     Time Freme				
• Exit lickets I fille Flame:				
• Group activities Geometry RC. 2 day				
• Section quizzes				
Chapter tests				
• Cumulative tests				
Projects / Presentations     Materials:				
• Midterm exam Textbook: 2007 <i>McDougal Littell</i>				
• Final Exam Geometry by Larson, ISBN: 0-618-				
25023-9				
Graphing calculators: Ti-83/84 plus.				
Smart board, internet research and				
activities, graph papers, color pencits.				

<b>CONTENT:</b> Chapter 6				
Theme: Similarity				
Essential Questions:				
If two figures are similar, how do you f	ind the length of a missing side?			
How can you show that two triangles an	re similar?			
How do you prove that two triangles ar	e similar by using the SSS Similarity The	eorem?		
What proportions can you write if a line	e is parallel to one side of a triangle?			
How do you dilate a figure in the coord	inate plane?	1		
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:	
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH	
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1	
• Section 6.6 Proportions and	• Use proportionality theorems to	measures:)		
Similar Triangles	calculate segment length.		NJSLS MA 9-12	
	• To solve real-life problems	Homework	G.SRT.4, 5	
		• Warm up exercises	G.GPE.6	
		Exit Tickets	G.MG.3	
Group activities     Time Frame:				
Section quizzes     Geometry RC: 2 day				
Chapter tests				
		Cumulative tests		
		Projects / Presentations		
		Midterm exam	Materials <sup>.</sup>	
		• Final Exam	Textbook: 2007 McDougal Littell	
			Geometry by Larson, ISBN: 0-618-	
			25023-9	
			Graphing calculators: Ti-83/84 plus.	
Smart hoard internet research and				
			activities, graph papers, color pencils,	

<b>CONTENT:</b> Chapter 6					
Theme: Similarity					
<b>Essential Questions:</b>					
If two figures are similar, how do you f	ind the length of a missing side?				
How can you show that two triangles an	re similar?				
How do you prove that two triangles are	e similar by using the SSS Similarity The	eorem?			
What proportions can you write if a line	e is parallel to one side of a triangle?				
How do you dilate a figure in the coord	inate plane?	1			
<ul> <li>Content (As a result of this learning segment, students will know)</li> <li>Section 6.7 Perform Similarity Transformation</li> </ul>	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Identify Dilations</li> <li>Use properties of dilations to create real-life perspective drawings</li> </ul>	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) Homework Warm up exercises Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1NJSLS MA 9-12 G.CO.2 G.SRT.1 G.GPE.4Time Frame: Geometry RC: 2 dayMaterials: Textbook: 2007 McDougal Littell Geometry by Larson, ISBN: 0-618- 25023-9		
Graphing calculators: Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.					

<b>CONTENT:</b> Chapter 7				
Theme: Right Triangles and Trigonom	etry			
Essential Questions:				
How can you find the length of the altit	ude to the hypotenuse of a right triangle?			
If you know the lengths of two sides of	a right triangle, how do you find the leng	gth 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 side	es of a $30^\circ$ , $60^\circ$ , $90^\circ$ triangle and a $45^\circ$ , $45^\circ$	<sup>o</sup> , 90° triangle?		
How can you find the leg of a right tria	ngle when you know the other leg and on	e acute angle?		
How can you find the lengths of the sid	es of a right triangle when you are given	the length of the hypotenuse and once ac	rute angle?	
In a right triangle, how can you find all	the sides and angles of the triangle?			
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:	
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH	
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1	
• Section 7.1 The Pythagorean	• Prove the Pythagorean Theorem	measures:)		
Theorem	• Use the Pythagorean Theorem to		NJSLS MA 9-12	
	solve real-life problems	Homework	G.SRT.4, 8	
		• Warm up exercises	G.GPE. 7	
Exit Tickets     Time Frame:				
Group activities			Geometry RC: 1 day	
		Section quizzes		
		Chapter tests		
		Cumulative tests	Materials:	
		Projects / Presentations	Textbook: 2007 McDougal Littell	
		• Midterm exam	Geometry by Larson, ISBN: 0-618-	
		• Final Exam	25023-9	
			Graphing calculators: Ti-83/84 plus.	
			Smart board, internet research and	
			activities, graph papers, color pencils.	

<b>CONTENT:</b> Chapter 7					
Theme: Right Triangles and Trigonom	etry				
<b>Essential Questions:</b>					
How can you find the length of the altit	ude to the hypotenuse of a right triangle?				
If you know the lengths of two sides of	a right triangle, how do you find the leng	gth 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 side	es of a $30^\circ$ , $60^\circ$ , $90^\circ$ triangle and a $45^\circ$ , $45^\circ$	?, 90° triangle?			
How can you find the leg of a right trian	ngle when you know the other leg and on	e acute angle?			
How can you find the lengths of the sid	es of a right triangle when you are given	the length of the hypotenuse and once ac	cute angle?		
In a right triangle, how can you find all	the sides and angles of the triangle?	1			
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 7.2 The Converse of the	• Use the Converse of the	measures:)			
Pythagorean Theorem	Pythagorean Theorem to solve		NJSLS MA 9-12		
	problems	Homework	G.SRT. 4, 8		
	Use side lengths to classify     Warm up exercises     Time Frame:				
triangles by their angle measures • Exit Tickets Geometry RC: 2 day					
Group activities					
	Section quizzes				
		Chapter tests			
		Cumulative tests	Materials <sup>.</sup>		
		Projects / Presentations	Textbook: 2007 McDougal Littell		
		Midterm exam	Geometry by Larson ISBN: 0-618-		
		• Final Exam	25023-9		
			Graphing calculators: Ti-83/84 plus.		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 7					
Theme: Right Triangles and Trigonom	Theme: Right Triangles and Trigonometry				
Essential Questions:					
How can you find the length of the altit	ude to the hypotenuse of a right triangle	?			
If you know the lengths of two sides of	a right triangle, how do you find the leng	gth 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 side	es of a $30^{\circ}$ , $60^{\circ}$ , $90^{\circ}$ triangle and a $45^{\circ}$ , $45^{\circ}$	°, 90° triangle?			
How can you find the leg of a right triat	ngle when you know the other leg and or	ne acute angle?			
How can you find the lengths of the sid	es of a right triangle when you are given	the length of the hypotenuse and once ac	cute angle?		
In a right triangle, how can you find all	the sides and angles of the triangle?	1			
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
Section 7.4 Special Right	• Find the side lengths of special	measures:)			
Triangles	right triangles		NJSLS MA 9-12		
	• Use special right triangles to	Homework	G.SRT. 6		
solve real-life problems • Warm up exercises <b>Time Frame:</b>					
Exit Tickets     Geometry RC : 1 day					
Group activities					
Section quizzes					
	• Chapter tests				
		Cumulative tests	Materials <sup>.</sup>		
		Projects / Presentations	Textbook: 2007 McDougal Littell		
		Midterm exam	Geometry by Larson ISBN: 0-618-		
		• Final Exam	25023-9		
			20020 9		
			Graphing calculators: Ti-83/84 plus.		
	Smart board, internet research and				
			activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 7				
Theme: Right Triangles and Trigonom	etry			
Essential Questions:				
How can you find the length of the altit	ude to the hypotenuse of a right triangle?			
If you know the lengths of two sides of	a right triangle, how do you find the leng	gth 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 side	es of a $30^\circ$ , $60^\circ$ , $90^\circ$ triangle and a $45^\circ$ , $45^\circ$	<sup>o</sup> , 90° triangle?		
How can you find the leg of a right tria	ngle when you know the other leg and or	e acute angle?		
How can you find the lengths of the sid	es of a right triangle when you are given	the length of the hypotenuse and once ad	cute angle?	
In a right triangle, how can you find all	the sides and angles of the triangle?	1		
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:	
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH	
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1	
Section 7.5 Trigonometric Ratios	<ul> <li>Find the sine, cosine and tangent of an acute angle</li> <li>Use trigonometric ratios to solve real-life problems</li> </ul>	<ul> <li>Homework</li> <li>Warm up exercises</li> <li>Exit Tickets</li> </ul>	NJSLS MA 9-12 G.SRT. 6, 8 <b>Time Frame:</b> Geometry RC : 1 day	
<ul> <li>Group activities</li> <li>Section quizzes</li> <li>Chapter tests</li> </ul>				
		<ul> <li>Cumulative tests</li> <li>Projects / Presentations</li> <li>Midterm exam</li> <li>Final Exam</li> </ul>	Materials: Textbook: 2007, <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.				

<b>CONTENT:</b> Chapter 7					
Theme: Right Triangles and Trigonom	etry				
Essential Questions:					
How can you find the length of the altit	ude to the hypotenuse of a right triangle	?			
If you know the lengths of two sides of	a right triangle, how do you find the len	gth 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 side	es of a $30^{\circ}$ , $60^{\circ}$ , $90^{\circ}$ triangle and a $45^{\circ}$ , $45^{\circ}$	°, 90° triangle?			
How can you find the leg of a right triat	ngle when you know the other leg and or	ne acute angle?			
How can you find the lengths of the sid	es of a right triangle when you are given	the length of the hypotenuse and once ad	cute angle?		
In a right triangle, how can you find all	the sides and angles of the triangle?				
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
Section 7.6 Solving Right	• Solve a right triangle using Sine	measures:)			
Triangles Use Sine and Cosine	and Cosine		NJSLS MA 9-12		
Ratios	• Use right triangles to solve real-	Homework	G.SRT. 8		
life problems• Warm up exercisesTime Frame:					
• Exit Tickets Geometry RC: 1 day					
Group activities					
Section quizzes					
	• Chapter tests				
		Cumulative tests	Matarials		
		Projects / Presentations	Textbook: 2007 McDougal Littell		
		Midterm exam	Geometry by Larson ISBN: 0.618		
		Final Exam	25023 Q		
<b>2</b> 5023-9					
			Graphing calculators: Ti-83/84 plus		
Graphing calculators. 11-65/84 plus.					
Smart board internet research and					
			activities, graph papers, color pencils,		
			, , , , , , , , , , , , , , , , , , ,		

<b>CONTENT:</b> Chapter 7					
Theme: Right Triangles and Trigonometry					
Essential Questions:					
How can you find the length of the altit	ude to the hypotenuse of a right triangle	?			
If you know the lengths of two sides of	a right triangle, how do you find the leng	gth 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 side	es of a $30^{\circ}$ , $60^{\circ}$ , $90^{\circ}$ triangle and a $45^{\circ}$ , $45^{\circ}$	°, 90° triangle?			
How can you find the leg of a right trian	ngle when you know the other leg and or	ne acute angle?			
How can you find the lengths of the sid	es of a right triangle when you are given	the length of the hypotenuse and once ad	cute angle?		
In a right triangle, how can you find all	the sides and angles of the triangle?	1			
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 7.7 Use Tangents Solving	• Solve a right triangle using	measures:)			
Right Triangles	Tangents		NJSLS MA 9-12		
	• Use right triangles to solve real-	Homework	G.SRT. 8		
life problems • Warm up exercises <b>Time Frame:</b>					
Exit Tickets     Geometry RC: 1 day					
Group activities					
Section quizzes					
	• Chapter tests				
		Cumulative tests	Materials:		
		Projects / Presentations	Textbook: 2007 McDougal Littell		
		Midterm exam	Geometry by Larson ISBN: 0-618-		
		• Final Exam	25023-9		
2 T Hur Exam 23025-9					
			Graphing calculators: Ti-83/84 plus.		
Graphing calculators. 11-05/04 plus.					
Smart board, internet research and					
			activities, graph papers, color pencils.		

CONTENT: Chapter 8					
Theme: 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?         Content (As a result of this learning         Skills (As a result of this learning         Assessments (The above Essential         Standards:					
<ul> <li>Section 1.6 Polygons</li> </ul>	<ul> <li>Identify, name, and describe polygons</li> <li>Use the sum of the measures of the interior angles of a quadrilaterals</li> </ul>	<ul> <li>Questions will be assessed with the following formative and summative measures:)</li> <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>	NIECH         8.1.12.A.4, 8.1.12.A.CS1         NJSLS MA 9-12         G.GMD.4         G.MG.1         Time Frame:         Geometry: 2 day         Materials:         Textbook: 2007 McDougal Littell         Geometry by Larson, ISBN: 0-618-25023-9         Graphing calculators: Ti-83/84 plus.         Smart board, internet research and activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 8					
Theme: Quadrilaterals					
Essential Questions:					
How do you classify polygons?					
How do you find the missing angle mea	asures of a convex polygon?				
How do you find angles and side measu	res in a parallelogram?				
How can you prove that a quadrilateral	is a parallelogram?				
What are the properties of parallelogram	ns that have all sides or all angles congru	lent?			
What are the main properties of trapezo	oids and kites?				
How can you identify special quadrilate	erals?	1			
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 8.1 Angle Measures in	• Write the equations of circles	measures:)			
Polygons	• Use the equation of a circle and		NJSLS MA 9-12		
	its graph to solve problems	Homework	G.GPE.1		
		Warm up exercises	Time Frame:		
	Exit Tickets     Geometry RC: 2 day				
		Group activities			
		Section quizzes			
		Chapter tests			
		Cumulative tests	Materials <sup>.</sup>		
		Projects / Presentations	Textbook: 2007 McDougal Littell		
		Midterm exam	Geometry by Larson, ISBN: 0-618-		
		Final Exam	25023-9		
			Graphing calculators: Ti-83/84 plus.		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 8			
Theme: Quadrilaterals			
<b>Essential Questions:</b> How do you classify polygons? How do you find the missing angle mease How do you find angles and side mease How can you prove that a quadrilateral What are the properties of parallelogram What are the main properties of trapezo How can you identify special quadrilater <b>Content</b> ( <i>As a result of this learning</i>	asures of a convex polygon? ures in a parallelogram? is a parallelogram? ms that have all sides or all angles congr bids and kites? erals? Skills (As a result of this learning	Assessments (The above Essential	Standards:
<ul> <li>segment, students will know)</li> <li>Section 8.2 Properties of Parallelograms</li> </ul>	<ul> <li>segment, students will be able to)</li> <li>Identify, name, and describe polygons</li> <li>Use the sum of the measures of the interior angles of a quadrilaterals</li> </ul>	Questions will be assessed with the following formative and summative measures:) • Homework • Warm up exercises • Exit Tickets • Group activities • Section quizzes • Chapter tests • Cumulative tests • Projects / Presentations • Midterm exam • Final Exam	TECH 8.1.12.A.4, 8.1.12.A.CS1 NJSLS MA 9-12 G.CO.11 G.SRT.5 <b>Time Frame:</b> Geometry: 2 day Materials: Textbook: 2007 <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.

<b>CONTENT:</b> Chapter 8			
Theme: Quadrilaterals			
<b>Essential Questions:</b> How do you classify polygons? How do you find the missing angle mea How do you find angles and side measu How can you prove that a quadrilateral What are the properties of parallelogram What are the main properties of trapezo How can you identify special quadrilater	usures of a convex polygon? ares in a parallelogram? is a parallelogram? ns that have all sides or all angles congruids and kites? erals?	uent?	
<ul> <li>Content (As a result of this learning segment, students will know)</li> <li>Section 8.3 Proving Quadrilaterals are parallelograms</li> </ul>	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Prove that a quadrilateral is a parallelogram</li> <li>Use coordinate geometry with parallelograms</li> </ul>	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) • Homework • Warm up exercises • Exit Tickets • Group activities • Section quizzes • Chapter tests • Cumulative tests • Projects / Presentations • Midterm exam • Final Exam	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1NJSLS MA 9-12 G.CO.11 G.SRT.5Time Frame: Geometry RC: 2 dayMaterials: Textbook: 2007 McDougal Littell Geometry by Larson, ISBN: 0-618- 25023-9Graphing calculators: Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 8					
Theme: Quadrilaterals					
Essential Questions:         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?					
segment, students will know)	segment, students will be able to)	Questions will be assessed with the following formative and summative	TECH		
• Section 8.4 Rhombuses, Rectangles, and Squares	<ul> <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>	<ul> <li>following formative and summative measures:)</li> <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>	8.1.12.A.4, 8.1.12.A.CS1 NJSLS MA 9-12 G.CO.11 G.SRT.5 G.GPE.7 <b>Time Frame:</b> Geometry RC: 2 days <b>Materials:</b> Textbook: 2007 <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.		

<b>CONTENT:</b> Chapter 8				
Theme: Quadrilaterals				
Theme: Quadrilaterals         Essential Questions:         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?         Content (As a result of this learning         Skills (As a result of this learning         Assessments (The above Essential				
<ul> <li>segment, students will know)</li> <li>Section 8.5 Trapezoids and Kites</li> </ul>	<ul> <li>segment, students will be able to)</li> <li>Use properties of trapezoids</li> <li>Use properties of kites</li> </ul>	Questions will be assessed with the following formative and summative measures:) • Homework • Warm up exercises • Exit Tickets • Group activities • Section quizzes • Chapter tests • Cumulative tests • Projects / Presentations • Midterm exam • Final Exam	TECH 8.1.12.A.4, 8.1.12.A.CS1 NJSLS MA 9-12 G.SRT.5 G.GPE.4 <b>Time Frame:</b> Geometry RC : 2 day <b>Materials:</b> Textbook: 2007 <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.	

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<b>CONTENT:</b> Chapter 8			
Theme: Quadrilaterals			
<b>Essential Questions:</b> How do you classify polygons?			
How do you find the missing angle mea	asures of a convex polygon?		
How do you find angles and side measu	res in a parallelogram?		
How can you prove that a quadrilateral	is a parallelogram?		
What are the properties of parallelogram	ns that have all sides or all angles congru	ient?	
What are the main properties of trapezo	oids and kites?		
How can you identify special quadrilate	erals?		
<ul> <li>Content (As a result of this learning segment, students will know)</li> <li>Section 8.6 Special Quadrilaterals</li> </ul>	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Identify special quadrilaterals based on limited information</li> <li>Prove that a quadrilateral is a special type of quadrilateral</li> </ul>	<ul> <li>Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)</li> <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>	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1 NJSLS MA 9-12 G.CO.11 Time Frame: Geometry: 0 day Materials: Textbook: 2007 <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.

CONTENT: Chapter 8			
Theme: Quadrilaterals			
Essential Questions:			
How do you classify polygons?			
How do you find the missing angle mea	asures of a convex polygon?		
How do you find angles and side measu	res in a parallelogram?		
How can you prove that a quadrilateral	is a parallelogram?		
What are the properties of parallelogram	ns that have all sides or all angles congru	ent?	
What are the main properties of trapezo	oids and kites?		
How can you identify special quadrilate	erals?		
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
• Section 11.1 Areas of Triangles	• Find the areas of squares,	measures:)	
and Quadrilaterals	rectangles, parallelograms, and		NJSLS MA 9-12
	triangles	Homework	G.GMD I
	• Find the areas of trapezoids, kites,	• Warm up exercises	Time Frame:
	and rhombuses	• Exit Tickets	Geometry RC: 2 day
		Group activities	
		Section quizzes	
		Chapter tests	
		Cumulative tests	Materials:
		Projects / Presentations	Textbook: 2007 McDougal Littell
		Midterm exam	Geometry by Larson, ISBN: 0-618-
		Final Exam	25023-9
			Graphing calculators: Ti-83/84 plus.
			Smart board internat research and
			activities graph papers color papeils
			activities, graph papers, color penens.

<b>CONTENT:</b> Chapter 9			
Theme: Transformations			
<b>Essential Questions:</b> How do you translate a figure in the co When does a figure have line symmetry How do you reflect a figure in the coor How do you rotate a figure about the or When does a figure have rotational sym What is a glide reflection?	ordinate plane? y? dinate plane? rigin? nmetry		
<ul> <li>Content (As a result of this learning segment, students will know)</li> <li>Section 9.3 Reflections</li> </ul>	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Identify and use reflection in a plane</li> <li>Identify relationships between reflections and line symmetry</li> </ul>	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) • Homework • Warm up exercises • Exit Tickets • Group activities • Section quizzes • Chapter tests • Cumulative tests • Projects / Presentations • Midterm exam • Final Exam	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1NJSLS MA 9-12 G.CO.3, 4, 5Time Frame: Geometry RC : 2 dayMaterials: Textbook: 2007 McDougal Littell Geometry by Larson, ISBN: 0-618- 25023-9Graphing calculators: Ti-83/84 plus.Smart board, internet research and activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 7			
Theme: Transformations			
<b>Essential Questions:</b> How do you translate a figure in the coord When does a figure have line symmetry How do you reflect a figure in the coord How do you rotate a figure about the or When does a figure have rotational sym What is a glide reflection?	ordinate plane? ?? dinate plane? igin? metry		
Content (As a result of this learning segment, students will know)  • Section 9.4 Rotations	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Identify rotations in the plane</li> <li>Use rotational symmetry in real- life situations</li> </ul>	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) Homework Warm up exercises Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1NJSLS MA 9-12 G.CO.3, 4, 5Time Frame: Geometry RC: 2 dayMaterials: Textbook: 2007 McDougal Littell Geometry by Larson, ISBN: 0-618- 25023-9Graphing calculators: Ti-83/84 plus.Smart board, internet research and activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 9			
Theme: Transformations			
<b>Essential Questions:</b> How do you translate a figure in the coor When does a figure have line symmetry How do you reflect a figure in the coord How do you rotate a figure about the or When does a figure have rotational sym What is a glide reflection?	ordinate plane? ?? dinate plane? igin? metry		
<ul> <li>Content (As a result of this learning segment, students will know)</li> <li>Section 9.1 Translations and Vectors</li> </ul>	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Identify and use translations in the plane</li> <li>Use vectors in real-life situations</li> </ul>	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)         • Homework         • Warm up exercises         • Exit Tickets         • Group activities         • Section quizzes         • Chapter tests         • Projects / Presentations         • Midterm exam         • Final Exam	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1NJSLS MA 9-12 G.CO.3, 4, 5Time Frame: Geometry RC: 2 dayMaterials: Textbook: 2007 McDougal Littell Geometry by Larson, ISBN: 0-618- 25023-9Graphing calculators: Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 9			
Theme: Transformations			
<b>Essential Questions:</b> How do you translate a figure in the co When does a figure have line symmetry How do you reflect a figure in the coor How do you rotate a figure about the or When does a figure have rotational sym What is a glide reflection?	ordinate plane? /? dinate plane? rigin? metry		
<ul> <li>Content (As a result of this learning segment, students will know)</li> <li>Section 9.5 Glide Reflections and Compositions</li> </ul>	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Identify glide reflections in a plane</li> <li>Represent transformations as compositions of simpler transformations.</li> </ul>	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)      Homework     Warm up exercises     Exit Tickets     Group activities     Section quizzes     Chapter tests     Cumulative tests     Projects / Presentations     Midterm exam     Final Exam	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1NJSLS MA 9-12 G.CO.3, 4, 5Time Frame: Geometry RC: 2 dayMaterials: Textbook: 2007 McDougal Littell Geometry by Larson, ISBN: 0-618- 25023-9Graphing calculators: Ti-83/84 plus.Smart board, internet research and activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 10					
Theme: Circles					
Essential Questions:					
How can you verify that a segment is ta	ingent to a circle?				
How do you find the measure of an arc	of a circle?				
How can you tell if two chords in a circ	le are congruent?				
How do you find the measure of an insc	cribed 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?	1			
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 10.1Tangents to Circles	<ul> <li>Identify segments and lines related to circles</li> </ul>	measures:)	NJSLS MA 9-12G.CO.1. 2		
	• Use properties of a tangent to a	Homework	G.C.4		
	circle	Warm un exercises	Time Frame:		
• Walling Exclusions Finite France. • Exit Tickets Geometry RC· 2 day					
	Exit fickets     Geometry Re. 2 day				
		Section quizzes			
		Generation quizzes			
		Chapter tests     Cumulative tests			
		Cumulative tests	Materials:		
		• Projects / Presentations	Textbook: 2007 McDougal Littell		
		• Midterm exam	Geometry by Larson, ISBN: 0-618-		
		• Final Exam	25023-9		
			Graphing calculators: Ti-83/84 plus.		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

<b>CONTENT:</b> Chapter 10			
Theme: Circles			
<b>Essential Questions:</b> How can you verify that a segment is the How do you find the measure of an arcon How can you tell if two chords in a circle How do you find the measure of an instead what do you need to know to write the How do you find the length of an arc on How do you find the area of a sector of the How do you find the how do you find the area of a sector of the How do you find the how	angent to a circle? of a circle? cle are congruent? cribed angle? standard equation of a circle? f a circle?		
<ul> <li>Content (As a result of this learning segment, students will know)</li> <li>Section 10.2 Arcs</li> <li>Section 10.3 Chords</li> </ul>	<ul> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Use properties of arcs of circles</li> <li>Use properties of chords of circles</li> </ul>	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) • Homework • Warm up exercises • Exit Tickets • Group activities • Section quizzes • Chapter tests • Cumulative tests • Projects / Presentations • Midterm exam • Final Exam	Standards:TECH8.1.12.A.4, 8.1.12.A.CS1NJSLS MA 9-12G.CO.1, 12G.C.2, 3Time Frame:Geometry RC : 4 daysMaterials:Textbook: 2007 McDougal LittellGeometry by Larson, ISBN: 0-618-25023-9Graphing calculators: Ti-83/84 plus.Smart board, internet research andactivities, graph papers, color pencils.

CONTENT: Chapter 10			
Theme: Circles			
Essential Questions:			
How can you verify that a segment is ta	angent to a circle?		
How do you find the measure of an arc	of a circle?		
How can you tell if two chords in a circ	ele are congruent?		
How do you find the measure of an ins	cribed 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	f a circle?		
How do you find the area of a sector of	a circle?		
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
• Section 10.4 inscribed Angles	<ul> <li>Use inscribed angles to solve problems</li> <li>Use properties of inscribed polygons</li> </ul>	<ul> <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>	NJSLS MA 9-12 G.C.2, 3, 4, 5 <b>Time Frame:</b> Geometry RC: 4 day <b>Materials</b> : Textbook: 2007 <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.

CONTENT: Chapter 10					
Theme: Circles					
Essential Questions:					
How can you verify that a segment is ta	angent to a circle?				
How do you find the measure of an arc	of a circle?				
How can you tell if two chords in a circ	ele are congruent?				
How do you find the measure of an inse	cribed 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	f a circle?				
How do you find the area of a sector of	a circle?	1			
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 10.7 Equations of Circle	• Write the equations of circles	measures:)			
	• Use the equation of a circle and		NJSLS MA 9-12		
	its graph to solve problems	Homework	G.GPE.1		
		• Warm up exercises	Time Frame:		
	• Exit Tickets Geometry RC : 2 day				
		Group activities			
		Section quizzes			
		Chapter tests			
		Cumulative tests	Materials:		
		Projects / Presentations	Textbook: 2007 McDougal Littell		
		• Midterm exam	Geometry by Larson, ISBN: 0-618-		
		Final Exam	25023-9		
			Graphing calculators: Ti-83/84 plus.		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

CONTENT: Chapter 11			
Theme: Circles			
<b>Essential Questions:</b> How can you verify that a segment is ta How do you find the measure of an arc How can you tell if two chords in a circ How do you find the measure of an inse What do you need to know to write the How do you find the length of an arc of How do you find the area of a sector of	ingent to a circle? of a circle? ele are congruent? cribed angle? standard equation of a circle? f a circle? a circle?	Aggagements (The shows Essential	Standarda
<ul> <li>Section 11.4 Circumference and Arc Length</li> </ul>	<ul> <li>Skills (As a result of this tearning segment, students will be able to)</li> <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>	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) • Homework • Warm up exercises • Exit Tickets • Group activities • Section quizzes • Chapter tests • Cumulative tests • Projects / Presentations • Midterm exam • Final Exam	Standards:         TECH         8.1.12.A.4, 8.1.12.A.CS1         NJSLS MA 9-12         G.C.5         G.GMD.1         Time Frame:         Geometry RC: 2 day         Materials:         Textbook: 2007 McDougal Littell         Geometry by Larson, ISBN: 0-618-         25023-9         Graphing calculators: Ti-83/84 plus.         Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 11					
Theme: Circles					
Essential Questions:					
How can you verify that a segment is ta	angent to a circle?				
How do you find the measure of an arc	of a circle?				
How can you tell if two chords in a circ	ele are congruent?				
How do you find the measure of an inse	cribed 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	f a circle?				
How do you find the area of a sector of	a circle?	1			
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH		
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1		
• Section 11.5 Areas of Circles and	• Find the area of a circle and a	measures:)			
Sectors	sector of a circle		NJSLS MA 9-12		
	• Use areas of circles and sectors to	Homework	G.C.5		
	solve real-life problems	• Warm up exercises	Time Frame:		
	Exit Tickets     Geometry RC: 2 day				
		Group activities			
		Section quizzes			
		Chapter tests			
		Cumulative tests	Materials:		
		Projects / Presentations	Textbook: 2007 McDougal Littell		
		Midterm exam	Geometry by Larson, ISBN: 0-618-		
		Final Exam	25023-9		
			Graphing calculators: Ti-83/84 plus.		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

CONTENT: Chapter 12			
Theme: Surface Area and Volume			
CONTENT: Chapter 12 Theme: Surface Area and Volume Essential Questions: What is a solid a polyhedron? What is the surface area of prisms, cylinders If two solids are similar, what is the ratii Content (As a result of this learning segment, students will know) • Section 12.1 Explore Solids	<ul> <li>aders, pyramids, cones and spheres?</li> <li>a, pyramids, cones and spheres?</li> <li>a of their surface area and what is the ra</li> <li>Skills (As a result of this learning segment, students will be able to)</li> <li>Use properties of polyhedral</li> <li>Use Euler's Theorem in real-life situation</li> </ul>	tio of their volumes? Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) Homework Warm up exercises Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam	Standards:         TECH         8.1.12.A.4, 8.1.12.A.CS1         NJSLS MA 9-12         G.GMD.4         Time Frame:         Geometry RC: 2 day         Materials:         Textbook: 2007 McDougal Littell         Geometry by Larson, ISBN: 0-618-25023-9         Graphing calculators: Ti-83/84 plus.
			Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 12	CONTENT: Chapter 12					
Theme: Exploring Solids						
Essential Questions:						
What is a solid a polyhedron?						
What is the surface area of prisms, cylin	nders, pyramids, cones and spheres?					
What is the volume of prisms, cylinders	s, pyramids, cones and spheres?					
If two solids are similar, what is the rati	o of their surface area and what is the rat	tio of their volumes?				
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:			
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH			
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1			
• Section 12.2 Surface Area of	• Find the surface area of a prism	measures:)				
Prisms and Cylinders	• Find the surface area of a cylinder		NJSLS MA 9-12			
		Homework	G.GMD.1, 3, 4			
		Warm up exercises	Time Frame:			
		Exit Tickets	Geometry RC : 2 day			
	Group activities					
		Section quizzes				
		Chapter tests				
		Cumulative tests	Materials <sup>.</sup>			
		<ul> <li>Projects / Presentations</li> </ul>	Textbook: 2007 <i>McDougal Littell</i>			
		Midterm exam	Geometry by Larson, ISBN: 0-618-			
		Final Exam	25023-9			
			Graphing calculators: Ti-83/84 plus.			
			Smart board, internet research and activities, graph papers, color pencils,			
			and and a second s			

CONTENT: Chapter 12			
Theme: Exploring Solids			
<b>Essential Questions:</b>			
What is a solid a polyhedron?			
What is the surface area of prisms, cyli	nders, pyramids, cones and spheres?		
What is the volume of prisms, cylinder	s, pyramids, cones and spheres?		
If two solids are similar, what is the rat	10 of their surface area and what is the ra	to of their volumes?	
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
• Section 12.3 Surface Area of	• Find the surface area of a	measures:)	NUCL C MA 0 12
Pyramids and Cones	pyramids	11 1	NJSLS MA $9-12$
	• Find the surface area of a cones	Homework	G.GMID.1, 5, 4
		• Warm up exercises	Time Freme
		• Exit Tickets	Time Frame:
		Group activities	Geometry RC. 2 day
		Section quizzes	
		Chapter tests	
		Cumulative tests	
		<ul> <li>Projects / Presentations</li> </ul>	Materials:
		Midterm exam	Textbook: 2007 McDougal Littell
		• Final Exam	Geometry by Larson, ISBN: 0-618-
			25023-9
			Graphing calculators: Ti-83/84 plus.
			Smart board, internet research and
			activities, graph papers, color pencils.

<b>CONTENT:</b> Chapter 12			
Theme: Exploring Solids			
<b>Essential Questions:</b> What is a solid a polyhedron? What is the surface area of prisms, cylinders, py What is the volume of prisms, cylinders, pyrami If two solids are similar, what is the ratio of thei	yramids, cones and spheres? iids, cones and spheres? eir surface area and what is the rat	io of their volumes?	
Content (As a result of this learning segment, students will know)Skills segment• Section 12.4 Volume of Prisms and Cylinders• Use • Fin cyl	(As a result of this learning ont, students will be able to) se volume postulates nd the volume of prisms and linders in real-life	<ul> <li>Assessments (The above Essential Questions will be assessed with the following formative and summative measures:)</li> <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>	Standards: TECH 8.1.12.A.4, 8.1.12.A.CS1 NJSLS MA 9-12 G.GMD.1, 3, 4 Time Frame: Geometry RC: 3 day Materials: Textbook: 2007 <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.

<b>CONTENT:</b> Chapter 12			
Theme: Exploring Solids			
Essential Questions:			
What is a solid a polyhedron?			
What is the surface area of prisms, cylin	nders, pyramids, cones and spheres?		
What is the volume of prisms, cylinders	s, pyramids, cones and spheres?		
If two solids are similar, what is the rati	o of their surface area and what is the rat	io of their volumes?	
<b>Content</b> (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
• Section 12.5 Volume of Pyramids	• Find the volume of pyramids and	measures:)	
and Cones	cones		NJSLS MA 9-12
	• Find the volume of pyramids and	Homework	G.GMD.1, 3, 4
	cones in real-life	Warm up exercises	Time Frame:
		Exit Tickets	Geometry RC: 2 day
		Group activities	
		Section quizzes	
		Chapter tests	
		Cumulative tests	Motoriala
		Projects / Presentations	Toythook: 2007 MaDougal Littall
		• Midterm exam	Geometry by Larson ISBN: 0.618
		• Final Exam	25023 Q
			25025-9
			Graphing calculators: Ti-83/84 plus
			Gruphing culculators. 11 05/04 plus.
			Smart board, internet research and
			activities, graph papers, color pencils.

CONTENT: Chapter 12						
Theme: Exploring Solids						
Essential Questions:						
What is a solid a polyhedron?						
What is the surface area of prisms, cylin	nders, pyramids, cones and spheres?					
What is the volume of prisms, cylinders	s, pyramids, cones and spheres?					
If two solids are similar, what is the rational second sec	io of their surface area and what is the ra	tio of their volumes?				
<b>Content</b> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:			
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH			
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1			
• Section 12.6 Surface area and	• Find the surface area of spheres	measures:)				
Volume of Spheres	• Find the volume of spheres in		NJSLS MA 9-12			
	real-life	Homework	G.GMD.1, 3, 4			
		Warm up exercises	Time Frame:			
		Exit Tickets	Geometry RC : 2 day			
Group activities						
	Section quizzes					
		Chapter tests				
		Cumulative tests	Materials <sup>.</sup>			
		Projects / Presentations	Textbook: 2007 <i>McDougal Littell</i>			
		Midterm exam	Geometry by Larson, ISBN: 0-618-			
		Final Exam	25023-9			
			Graphing calculators: Ti-83/84 plus.			
			Smart board, internet research and activities, graph papers, color pencils.			
## CARLSTADT-EAST RUTHERFORD REGIONAL HIGH SCHOOL DISTRICT MATHEMATICS DEPARTMENT GEOMETRY RC

CONTENT: Chapter 12			
Theme: Exploring Solids			
Essential Questions:			
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> (As a result of this learning	<b>Skills</b> (As a result of this learning	Assessments (The above Essential	Standards:
segment, students will know)	segment, students will be able to)	Questions will be assessed with the	TECH
		following formative and summative	8.1.12.A.4, 8.1.12.A.CS1
• Section 12.7 Similar Solids	• Find and use the scale factor of	measures:)	
	similar solids		NJSLS MA 9-12
	• Use similar solids to solve real-	Homework	G.GMD.3
	life problems	• Warm up exercises	Time Frame:
		Exit Tickets	Geometry: 1 day
		Group activities	
		Section quizzes	
		Chapter tests	
		Cumulative tests	Materials <sup>.</sup>
		Projects / Presentations	Textbook: 2007 McDougal Littell
		Midterm exam	Geometry by Larson ISBN: 0-618-
		• Final Exam	25023-9
			20020 /
			Graphing calculators: Ti-83/84 plus.
			Smort board internet recearch and
			activities, graph papers, color pencils
			activities, graph papers, color penelis.