Algebra 1 RC Pacing Chart

Pacing Guide	Unit 1 (Chapter 1): Expressions, Equations, and Functions. 1 week	
Algebra I RC is a full year course	Unit 2 (Chapter 2): Properties of Real Numbers. 1 week	
that meets on a rotating basis for three (3) 55-minute blocks and	Unit 3 (Chapter 3): Solving Linear Equations. 3 weeks	
one (1) 40-minute block for every five (5) day cycle.	Unit 4 (Chapter 4): Graphing Linear Equations. 3 weeks	
	Unit 5 (Chapter 5): Writing Linear Equations. 3 weeks	
	Unit 6 (Chapter 6): Solving and Graphing Linear Inequalities. 3 weeks	
	Unit 7 (Chapter 7): Systems of Linear Equations and Inequalities. 3 weeks	
	Unit 8 (Chapter 8): Exponents and Exponential Functions. 3 weeks	
	Unit 9 (Chapter 9): Polynomials and Factoring. 4 weeks	
	Unit 10 (Chapter 10): Quadratic Equations and Functions. 2 weeks	
	Unit 11 (Chapter 11): Radicals and Geometry Connections. 3 weeks	
	Unit 12 (Chapter 12): Rational Equations and Functions. 2 weeks	
	Unit 13 (Chapter 13): Probability and Data Analysis. 3 weeks	

21st Century Skills Standards:	
9.1 Personal Finance Literacy	9.1.12.D.3: Summarize how investing builds wealth and assists in meeting long-and short-term financial goals.
	9.1.12.D.5: Justify the use of savings and investment options to meet targeted goals.
9.2 Career Awareness	9.1.12.D.10: Differentiate among various investment products and savings vehicles and how to use them most effectively.
	9.2.12.C.1: Review career goals and determine steps necessary for attainment.
	9.2.12.C.4: Analyze how economic conditions and social changes influence employment trends and future education.
Technology Standards	8.1.12.A.4: Construct a spreadsheet, enter data, and use mathematical or logical functions to manipulate data, generate
	charts and graphs, and interpret the results.
Interdisciplinary Connections	Science
	HS-PS4-1 The wavelength and frequency of a wave are related to one another by the speed of travel of the wave, which
	depends on the type of wave and the medium through which it is passing.
	HS-PS1-8 Spontaneous radioactive decays follow a characteristic exponential decay law. Nuclear lifetimes allow
	radiometric dating to be used to determine the ages of rocks and other materials.
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.
NJSLS 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.
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Differentiation/Accommodations/Modifications

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

Gifted and Talented	English Language Learners	Students with Disabilities	Students at Risk of School Failure
 (content, process, product and learning environment) Extension Activities: Conduct research and provide presentation of mathematical topics. Design surveys to generate and analyze data to be used in discussion. Use of higher level questioning techniques. Provide assessments at a higher level of thinking. 	Modifications for Homework/Assignments Modified assignments. Extended time for assignment completion as needed. Use graphing calculator. Highlight formulas.	 (appropriate accommodations, instructional adaptations, and/or modifications as determined by the IEP or 504 team) Modifications for Classroom: Ask students to restate information, directions, and assignments. Repetition and practice. Model skills / techniques to be mastered. Extended time to complete class work. Provide copy of class notes. Preferential seating to be mutually determined by the student and teacher. Students may request books online, on tape/CD, as available and appropriate. Assign peer helper in the class setting. Provide regular parent / school communication 	 Ask students to restate information, directions, and assignments. Repetition and practice. Model skills / techniques to be mastered. Extended time for class work. Provide copy of class notes. Preferential seating to be mutually determined by the student and teacher. Students may request books online, on tape/CD, as available and appropriate. Assign peer helper in the class setting. Provide oral reminders and check student work during independent work time. Assist student with long and short term planning of assignments Provide regular parent / school communication. Assign peer helper in the class setting.

 Provide oral reminders and check student work during independent work time. Assist student with long and short term planning of assignments 	 Provide oral reminders and check student work during independent work time. Assist student with long and short term planning of assignments
Modifications for Homework	Modifications for Homework
 Extended time to complete assignments. Student requires more complex assignments to be broken up and explained in smaller units, with work to be submitted in phases. Provide the student with clearly stated (written) expectations and grading criteria for assignments. 	 Extended time to complete assignments. Student requires more complex assignments to be broken up and explained in smaller units, with work to be submitted in phases. Provide the student with clearly stated (written) expectations and grading criteria for assignments.
Modification for Assessments	Modification for Assessments
 Extended time on classroom tests and quizzes. Student may take / complete tests in an alternate setting as needed. Restate, reread, and clarify directions/questions. Distribute study guide for classroom tests. Establish procedures for accommodations / modifications for assessments. 	 Extended time on classroom tests and quizzes. Student may take / complete tests in an alternate setting as needed. Restate, reread, and clarify directions/questions. Distribute study guide for classroom tests. Establish procedures for accommodations / modifications for assessments.

CONTENT: Chapter 1

Theme: Expressions, Equations, and Functions

Essential Questions:

What is a variable?

What rules are used to simplify expressions with exponents?

How is the order of operations applied when simplifying an expression?

What inverse operations are used in order to solve a one-step or multi-step equation?

How do you interpret data on a graph?

How do you interpret data on a graph?			
What is a function?			
 Content (As a result of this learning segment, students will know) Section 1.1 (Evaluate expressions) Section 1.2 (Apply Order of Operations) Section 1.3 (Write Expressions) Section 1.4 (Write Equations and Inequalities) Section 1.5 (Use a Problem Solving Plan) Section 1.6 (Represent Functions as Rules and Tables) Section 1.7 (Represent Functions as Graphs) 	 Skills (As a result of this learning segment, students will be able to) Evaluate expressions Apply order of operations Write expressions Write equations and inequalities Use a problem solving plan Represent functions as rules and tables Represent functions as graphs 	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.CS1 NJSLS MA 9-12 CED.1, CED.2, CED.3 F.IF.1 N.Q.1, N.Q.2, N.Q.3 CED.1 SSE.1 REI.3 Time Frame: Algebra 1 RC: 5 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: TI-83/84 plus / TI-30XS Smart board, internet research and

activities, graph papers, color pencils.

CONTENT: Chapter 2			
Theme: Properties of Real Numbers			
Essential Questions:			
What is an integer?			
What is a rational number?			
How is the distributive property applied			
How do you find the square root of a nu			
 Content (As a result of this learning segment, students will know) Section 2.1 (Use Integers and Real Numbers) Section 2.2 (Add Real Numbers) Section 2.3 (Subtract Real Numbers) Section 2.4 (Multiply Real Numbers) Section 2.5 (Apply the Distributive Property) Section 2.6 (Divide Real Numbers) 	 Skills (As a result of this learning segment, students will be able to) Add Real Numbers Subtract Real Numbers Multiply Real Numbers Apply the Distributive Property Divide Real Numbers Find Square Roots and Compare Real Numbers 	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	Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12 CED.1, CED.2, CED.3 F.IF.1 N.Q.1, N.Q.2, N.Q.3 CED.1 SSE.1 REI.3 Time Frame: Algebra 1 RC: 5 days
• Section 2.7 (Find Square Roots		Midterm exam	Materials:
and Compare Real Numbers)		• Final Exam	Textbook: 2007 <i>McDougal Littell</i> Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3
			Calculators: TI-83/84 plus / TI-30XS
			Smart board, internet research and
			activities, graph papers, color pencils.

CONTENT: Chapter 3					
Theme: Solving Linear Equations	Theme: Solving Linear Equations				
Essential Questions:					
What are the four inverse operations?					
How are inverse operations used to solv					
How can you check that your solution i		,			
Content (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.8.1.12.A.CS1		
		following formative and summative	NJSLS MA 9-12		
• Section 3.1-3.4	 Solve one-step equations 	measures:)	N.Q.1		
Solving:	 Solve two-step equations 		CED.1		
-One-step equations	 Solve multi-step equations 	• Homework	CED.4		
-Two-step equations	• Solve equations with variables on	• Warm up exercises	REI.3		
-Multi-step equations	both sides	• Exit Tickets	Time Frame:		
-With variables on both sides	• Check their solution	 Group activities 	Algebra 1 RC: 6 days		
		 Section quizzes 			
		• Chapter tests			
		 Cumulative tests 			
		 Projects / Presentations 	Materials:		
		Midterm exam	Textbook: 2007 McDougal Littell		
		• Final Exam	Algebra 1 by Larson, ISBN-13: 978-0-		
			618-59556-3		
			G 1 1 . TH 02/04 1 /TH 201/G		
			Calculators: TI-83/84 plus / TI-30XS		
			Smart board, internet research and		
			1		
			activities, graph papers, color pencils.		

CONTENT: Chapter 3			
Theme: Solving Linear Equations			
•	 Skills (As a result of this learning segment, students will be able to) Simplify ratios Use the cross-product property to solve a proportion Analyze situations in real-life using proportions 	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	Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12 N.Q.1 CED.1 CED.4 REI.3 Time Frame: Algebra 1 RC: 3 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-
		• Final Exam	618-59556-3 Calculators: TI-83/84 plus / TI-30XS Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 3			
Theme: Solving Linear Equations			
Essential Questions:			
What is the proportion used to solve pe	rcent problems?		
What is the proportion used to solve pe Content (As a result of this learning segment, students will know) • Section 3.7 (Solve Percent Problems)	Skills (As a result of this learning segment, students will be able to) • Use the cross-product property to solve a proportion • Analyze situations in real-life using proportions and percents	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.CS1 NJSLS MA 9-12 N.Q.1 CED.1 CED.4 REI.3 Time Frame: Algebra 1 RC: 2 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: TI-83/84 plus / TI-30XS
			Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 3	CONTENT: Chapter 3				
Theme: Solving Linear Equations					
Essential Questions:					
How do you rewrite equations in terms	of a variable?				
Content (As a result of this learning segment, students will know) • Section 3.8 (Formulas and Functions)	 Skills (As a result of this learning segment, students will be able to) Represent situations using algebraic symbols Analyze situations using algebraic symbols 	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.CS1 NJSLS MA 9-12 N.Q.1 CED.1 CED.4 REI.3 Time Frame: Algebra 1 RC: 3 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: TI-83/84 plus / TI-30XS Smart board, internet research and activities, graph papers, color pencils.		

CONTENT: Chapter 4

Theme: Graphing Linear Equations an	d Functions		
Essential Questions:			
How do you plot points in the coordinat	te plane?		
What do the two numbers in an ordered	pair represent?		
How do you read a point off of a graph?	?		
Where are the four quadrants located?			
What is a scatter plot?			
Content (As a result of this learning segment, students will know) • Section 4.1 (Plot Points in the Coordinate Plane)	 Skills (As a result of this learning segment, students will be able to) Plot points in the coordinate plane Label the four quadrants Identify the ordered pair of a point plotted on a coordinate plane Identify what a scatter plot is and whether it has a positive or negative correlation 	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.CS1 NJSLS MA 9-12 CED.2 F.IF.6 F.IF.7 F.IF.7a Time Frame: Algebra 1 RC: 2 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: TI-83/84 plus / TI-30XS Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 4				
Theme: Graphing Linear Equations and Functions				
Essential Questions:				
What is standard form?				
How can intercepts be used to graph a li				
Content (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.8.1.12.A.CS1	
		following formative and summative	NJSLS MA 9-12	
• Section 4.3	Use intercepts to graph a linear	measures:)	CED.2	
(Graphing using intercepts)	equation		F.IF.6	
	• Identify what type of slope the	Homework	F.IF.7	
	line has after graphing	Warm up exercises	F.IF.7a	
	• Check whether an ordered pair is a	Exit Tickets	Time Frame:	
	solution to a linear equation	Group activities	Algebra 1 RC: 3 days	
	• Identify the x-intercept and y-	Section quizzes		
	intercept of a graph	Chapter tests		
		Cumulative tests		
		Projects / Presentations	Materials:	
		Midterm exam	Textbook: 2007 McDougal Littell	
		• Final Exam	Algebra 1 by Larson, ISBN-13: 978-0-	
		- That Exam	618-59556-3	
			Calculators: TI-83/84 plus / TI-30XS	
			_	
			Smart board, internet research and	
			activities, graph papers, color pencils.	

CONTENT: Chapter 4					
Theme: Graphing Linear Equations	Theme: Graphing Linear Equations and Functions				
Essential Questions:					
What ratio is used to represent slope?					
What formula is used to find slope?					
How do you read a graph to determine i					
What kind of slope do horizontal and ve	ertical lines have?				
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	Standards: TECH.8.1.12.A.CS1		
segment, students witt know)	segment, students will be able to)	following formative and summative	NJSLS MA 9-12		
• Section 4.4	• Find the slope of a line using rise	measures:)	CED.2		
(Find Slope and Rate of	over run	measures.)	F.IF.6		
Change)	• Find the slope of a line using the	Homework	F.IF.7		
Change)	slope formula	Warm up exercises	F.IF.7a		
	Read the slope of a graph	Exit Tickets	Time Frame:		
	 Determine a line's slope based on 	• Group activities	Algebra 1 RC: 2 days		
	its sign	*	Ingesta Tite. 2 days		
	its sign	Section quizzes Charten tests			
		• Chapter tests			
		• Cumulative tests	M-4		
		Projects / Presentations	Materials:		
		Midterm exam	Textbook: 2007 McDougal Littell		
		Final Exam	Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3		
			Calculators: TI-83/84 plus / TI-30XS		
			Smart board, internet research and activities, graph papers, color pencils.		

CONTENT: Chapter 4			
Theme: Graphing Linear Equations an	d Functions		
Essential Questions:			
What is direct variation?			
How do you graph a direct variation mo			
Content (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.8.1.12.A.CS1
		following formative and summative	NJSLS MA 9-12
• Section 4.6	 Graph direct variation models 	measures:)	CED.2
(Model Direct Variation)			F.IF.6
		Homework	F.IF.7
		Warm up exercises	F.IF.7a
		Exit Tickets	Time Frame:
		Group activities	Algebra 1 RC: 2 days
		Section quizzes	
		Chapter tests	
		Cumulative tests	
		 Projects / Presentations 	
		Midterm exam	Materials:
		• Final Exam	Textbook: 2007 McDougal Littell
			Algebra 1 by Larson, ISBN-13: 978-0-
			618-59556-3
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			Calculators: TI-83/84 plus / TI-30XS
			Smort hoard internet research and
			Smart board, internet research and
			activities, graph papers, color pencils.

CONTENT: Chapter 4			
Theme: Graphing Linear Equations an	nd Functions		
Essential Questions:			
What is slope-intercept form?			
What is a y-intercept?			
How is an equation rewritten in slope-in			
Content (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.8.1.12.A.CS1
		following formative and summative	NJSLS MA 9-12
• Section 4.7	• Rewrite an equation in slope-	measures:)	CED.2
(Graph Linear Functions)	intercept form		F.IF.6
	• Graph an equation in slope-	• Homework	F.IF.7
	intercept form	Warm up exercises	F.IF.7a Time Frame:
	• Identify the slope of a line based	• Exit Tickets	Algebra 1 RC: 3 days
	on a given graph	Group activities	Algebra 1 KC. 5 days
		Section quizzes	
		• Chapter tests	
		• Cumulative tests	
		Projects / Presentations	75.47
		Midterm exam	Materials:
		Final Exam	Textbook: 2007 McDougal Littell
			Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3
			010 37530 3
			Calculators: TI-83/84 plus / TI-30XS
			Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 5			
Theme: Writing Linear Equations			
Essential Questions:			
What is slope-intercept form?			
Where is the y-intercept located on a gra			
How is slope determined using a graph?			
How is an equation written when given			
How is an equation written when given			
Content (As a result of this learning segment, students will know) • Section 5.1 (Writing equations in slope-intercept form)	Skills (As a result of this learning segment, students will be able to) • Write an equation in slope-intercept form when given: Slope and y-intercept Slope and a point A graph	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.CS1 NJSLS MA 9-12 CED.2 F.LE.2 Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Graphing calculators: Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 5

Essential Questions: What is slope-intercept form? Where is the y-intercept located on a graph? How is slope determined using a graph? How is an equation written when given slope and a point? How is an equation written when given two points? Content (As a result of this learning segment, students will know) Section 5.2 (Use Linear Equations Written in Where is the y-intercept form when given two points? Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) Write an equation in slope-intercept form when given: Write an equation in slope-intercept form when given:
Where is the y-intercept located on a graph? How is slope determined using a graph? How is an equation written when given slope and a point? How is an equation written when given two points? Content (As a result of this learning segment, students will know) Skills (As a result of this learning segment, students will be able to) Skills (As a result of this learning following formative and summative following formative and summative measures:) Write an equation in slope- Write an equation in slope-
How is slope determined using a graph? How is an equation written when given slope and a point? How is an equation written when given two points? Content (As a result of this learning segment, students will know) Skills (As a result of this learning segment, students will be able to) Segment, students will know) Scotion 5.2 Write an equation in slope- Write an equation in slope- Section 5.2 Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) NJSLS MA 9-12 CED.2
How is an equation written when given slope and a point? How is an equation written when given two points? Content (As a result of this learning segment, students will know) Skills (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) Scandards: TECH.8.1.12.A.CS1 NJSLS MA 9-12 Outsions will be assessed with the following formative and summative measures:) NJSLS MA 9-12 CED.2
How is an equation written when given two points? Content (As a result of this learning segment, students will know) Skills (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) Scale of this learning segment, students will be able to) Scale of this learning segment, students will be able to) Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12 CED.2
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.CS1 NJSLS MA 9-12• Section 5.2• Write an equation in slope-measures:)CED.2
segment, students will know) Segment, students will be able to) Segment, students will be able to) Segment, students will be able to) Write an equation in slope- Unustions will be assessed with the following formative and summative measures:) TECH.8.1.12.A.CS1 NJSLS MA 9-12 CED.2
• Section 5.2 following formative and summative measures:) NJSLS MA 9-12 CED.2
• Section 5.2 • Write an equation in slope- measures:) CED.2
The state of the s
(Use Linear Equations Written in intercept form when given:
(
Slope-intercept Form) • Homework
Slope and a point • Warm up exercises Time Frame:
Two Points • Exit Tickets Algebra 1 RC: 3 days
Group activities
Section quizzes
• Chapter tests
• Cumulative tests
• Projects / Presentations Materials: Toythook: 2007 McDaugal Littell
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Algebra 1 by Larson, ISBN-13: 9/8
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activities, graph papers, color pencil
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CONTENT: Chapter 5			
Theme: Writing Linear Equations			
Essential Questions:			
What is point-slope form?			
How do you find the slope of a line give	en two points?		
What is slope-intercept form?			
 Content (As a result of this learning segment, students will know) Section 5.3 (Write Linear Equations in Point-slope form) 	 Skills (As a result of this learning segment, students will be able to) Write an equation in point-slope form when given: Slope and y-intercept Slope and a point Two points 	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	Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12 CED.2 F.LE.2 Time Frame: Algebra 1 RC: 2 days Materials: Textbook: 2007 McDougal Littell
		• Final Exam	Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Graphing calculators: Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 5			
Theme: Writing Linear Equations			
Essential Questions:			
How do you write an equation in standard	d form?		
Content (As a result of this learning segment, students will know) • Section 5.4 (Write Linear Equations in Standard form)	Skills (As a result of this learning segment, students will be able to) • Rewrite an equation in standard form	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.CS1 NJSLS MA 9-12 CED.2 F.LE.2 Time Frame: Algebra 1 RC: 2 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Graphing calculators: Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 5	CONTENT: Chapter 5					
Theme: Writing Linear Equations						
Essential Questions:						
What types of slopes do parallel lines hav	ve?					
What types of slopes do perpendicular lin						
How do you write equations of parallel ar	nd perpendicular lines?					
Content (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.8.1.12.A.CS1			
		following formative and summative	NJSLS MA 9-12			
• Section 5.5	• Identify the relationship between	measures:)	CED.2			
(Write Equations of Parallel and	the slopes of parallel and		F.LE.2			
Perpendicular Lines)	perpendicular lines	Homework				
	Write equations of parallel and	Warm up exercises	Time Frame:			
	perpendicular lines	Exit Tickets	Algebra 1 RC: 3 days			
		Group activities				
		Section quizzes				
		Chapter tests				
		Cumulative tests				
		Projects / Presentations	Materials:			
		Midterm exam	Textbook: 2007 McDougal Littell			
		Final Exam	Algebra 1 by Larson, ISBN-13: 978-0-			
			618-59556-3			
			Graphing calculators: Ti-83/84 plus.			
	Graphing calculators. 11-83/84 plus.					
			Smart board, internet research and			
			activities, graph papers, color pencils.			
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CONTENT: Chapter 6

Theme: Solving and Graphing Linear Inequalities

Essential Questions:

What is a linear inequality?

How are solutions graphed on number line?

What determines an open or closed circle when graphing a solution on a number line?

What must you do when dividing or multiplying by a negative when solving a linear inequality?

Content (As a result of this learning segment, students will know...)

- Section 6.1 (Solving linear inequalities using addition and subtraction)
- Section 6.2 (Solving linear inequalities using multiplication and division)

Skills (As a result of this learning segment, students will be able to...)

- Solve a one-step inequality using addition, subtraction, multiplication, and division
- Recall that when multiplying or dividing by a negative, the inequality sign must be switched
- Decide when an open or closed are used based on the solution
- Graph the solution to a linear inequality on a number line

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.CS1 NJSLS MA 9-12 CED.1 REI.3 REI.12

Time Frame:

Algebra 1 RC: 2 days

Materials:

Textbook: 2007 *McDougal Littell* Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3

Graphing calculators: Ti-83/84 plus.

Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 6

Theme: Solving and Graphing Linear Inequalities

Essential Questions:

What is a linear inequality?

What determines an open or closed circle What must you do when dividing or multi Content (As a result of this learning segment, students will know) • Section 6.3 (Solve multi-step linear inequalities)			Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12 CED.1 REI.3 REI.12 Time Frame:
	dividing by a negative, the inequality sign must be switched Decide when an open or closed are used based on the solution Graph the solution to a linear inequality on a number line	 Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam 	Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Graphing calculators: Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 6			
Theme: Solving and Graphing Linear In	nequalities		
Essential Questions:			
What is a compound inequality?			
What are the two types of compound ine			
What do the two types of compound inec			1
Content (As a result of this learning segment, students will know) • Section 6.4 (Solving compound inequalities)	Skills (As a result of this learning segment, students will be able to) • Using a given graph on a number line, identify whether the compound inequality represents an "and" or "or" inequality • Solve and graph an "and" inequality • Solve and graph an "or" inequality	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.CS1 NJSLS MA 9-12 CED.1 REI.3 REI.12 Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Graphing calculators: Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 6					
Theme: Solving and Graphing Linear Inequalities					
Essential Questions:					
What many solutions does an absolute va					
What steps have to be taken to solve an a	absolute value inequality?				
 Content (As a result of this learning segment, students will know) Section 6.5 (Solving absolute value equations) Section 6.6 (Solving absolute value inequalities) 	 Skills (As a result of this learning segment, students will be able to) Solve an absolute value equation Graph the solutions to an absolute value equation on a number line Solve an absolute value inequality Decide whether an absolute value inequality represents an "and" or "or" compound inequality Write the final answer to an "and" absolute value inequality as a compound inequality 	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.CS1 NJSLS MA 9-12 CED.1 REI.3 REI.12 Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Graphing calculators: Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.		

CONTENT: Chapter 6				
Theme: Solving and Graphing Linear Inequalities				
Essential Questions:				
How is a linear inequality graphed?				
What is a half plane?				
How do you decide whether the linear ine		T .		
Content (As a result of this learning segment, students will know) • Section 6.7 (Graph Linear Inequalities in two variables)	 Skills (As a result of this learning segment, students will be able to) Graph a linear inequality in two variables Decide if the line is dotted or solid Test an ordered pair in order to shade the appropriate half plane Apply linear inequalities to reallife problems 	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.CS1 PFL 9.3.ST.SM.3 NJSLS MA 9-12 CED.1 REI.3 REI.12 Time Frame: Algebra 1 RC: 3 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Graphing calculators: Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.	

CONTENT: Chapter 7			
Theme: Systems of Linear Equations an	nd Inequalities		
Essential Questions:			
What are three different techniques used			
How does solving a system of equations			
How does a system of inequalities differ			
Content (As a result of this learning segment, students will know) • Section 7.1 (Solve Linear Systems by Graphing)	 Skills (As a result of this learning segment, students will be able to) Solve a system of linear equations by graphing. Model a real-life problem using a system of equations. Check a solution to a system of equations. 	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.CS1 NJSLS MA 9-12 CED.2 CED.3 REI.6 REI.12 Time Frame: Algebra 1 RC: 2 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.
			Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 7					
Theme: Systems of Linear Equations an	nd Inequalities				
Essential Questions:					
What are three different techniques used					
How does solving a system of equations					
How does a system of inequalities differ					
Content (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.8.1.12.A.CS1		
		following formative and summative	NJSLS MA 9-12		
• Section 7.2	Solve a system of equations using	measures:)	CED.2		
(Solve Linear Systems by	substitution method.		CED.3		
Substitution)	Model a real-life problem using a	Homework	REI.5		
	system of equations.	Warm up exercises	REI.6		
		Exit Tickets	REI.12		
		Group activities	Time Frame:		
	• Section quizzes Algebra 1 RC: 4 days				
		Chapter tests			
		Cumulative tests			
		Projects / Presentations			
		Midterm exam			
		Final Exam	Materials:		
			Textbook: 2007 McDougal Littell		
			Algebra 1 by Larson, ISBN-13: 978-0-		
	618-59556-3				
Calculators: Ti 30xs,Ti-83/84 plus.					
			Consent board intermed responses and		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

CONTENT: Chapter 7					
Theme: Systems of Linear Equations an	nd Inequalities				
Essential Questions:					
What are three different techniques used					
How does solving a system of equations					
How does a system of inequalities differ		T .			
Content (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.8.1.12.A.CS1		
		following formative and summative	NJSLS MA 9-12		
• Section 7.3 Solving Linear	Solve a system of equations using	measures:)	CED.2		
Systems by Linear Combinations	elimination method	**	CED.3		
(Elimination Method)	Model a real-life problem using a	Homework	REI.5 REI.6		
	system of equations.	Warm up exercises	Time Frame:		
		• Exit Tickets	Algebra 1 RC: 4 days		
		Group activities	Algebra i Re. 4 days		
• Section quizzes					
		• Chapter tests			
		• Cumulative tests			
		Projects / Presentations	Materials:		
		Midterm exam	Textbook: 2007 McDougal Littell		
		Final Exam	Algebra 1 by Larson, ISBN-13: 978-0-		
			618-59556-3		
			Calculators: Ti 30xs,Ti-83/84 plus.		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

CONTENT: Chapter 7			
Theme: Systems of Linear Equations ar	nd Inequalities		
•	system?	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.CS1 NJSLS MA 9-12 CED.2 CED.3 REI.5 REI.6 Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.
			Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 8			
Theme: Exponents and Exponential Fu	nctions		
What real-life situations can be modeled What real-life situations can be modeled What is the difference between growth to	d by an exponential decay function? factor and decay factor?	Assessments (The above Essential	Standards:
 Content (As a result of this learning segment, students will know) Section 8.1 (Apply Exponent Properties Involving Products) 	 Skills (As a result of this learning segment, students will be able to) Use properties of exponents to multiply exponential expressions 	Questions will be assessed with the following formative and summative measures:) • Homework	TECH.8.1.12.A.CS1 NJSLS MA 9-12 SSE.3c
		 Warm up exercises Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests 	Time Frame: Algebra 1 RC: 2 days
		Projects / PresentationsMidterm examFinal Exam	Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.
			Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 8	CONTENT: Chapter 8			
Theme: Exponents and Exponential Fu	nctions			
•	s to simplify an exponential expression? I by an exponential growth function? I by an exponential decay function?	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.CS1 NJSLS MA 9-12 SSE.3c N.RN.1 Time Frame: Algebra 1 RC: 2 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3	
			Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.	

CONTENT: Chapter 8			
Theme: Exponents and Exponential Fu	unctions		
Essential Questions:	s to simplify an exponential expression? d by an exponential growth function? d by an exponential decay function?	Assessments (The above Essential Questions will be assessed with the	Standards: TECH.8.1.12.A.CS1
Section 8.3 (Define and Use Zero and Negative Exponents)	 Use the division properties of exponents to evaluate powers and simplify expressions. Evaluate zero and negative exponents 	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	NJSLS MA 9-12 SSE.3c Time Frame: Algebra 1 RC: 3 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 8			
Theme: Exponents and Exponential Fu	nnctions		
Essential Questions: How do you use properties of exponents What real-life situations can be modeled What is the difference between growth to Content (As a result of this learning segment, students will know)	d by an exponential decay function?	Assessments (The above Essential Questions will be assessed with the	Standards: TECH.8.1.12.A.CS1
• Section 8.4 (Use Scientific Notation)	 Convert numbers in decimal form to scientific notation Convert numbers in scientific notation to decimal form Use rules of exponents to simplify numbers in scientific notation that are multiplied or divided Rewrite a number in proper scientific notation 	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	NJSLS MA 9-12 SSE.3c Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 8			
Theme: Exponents and Exponential Fu	inctions		
Essential Questions:	s to simplify an exponential expression? d by an exponential growth function? d by an exponential decay function?	Assessments (The above Essential Questions will be assessed with the	Standards: TECH.8.1.12.A.CS1
 Section 8.5 (Exponential Growth Functions) Section 8.6 (Exponential Decay Functions) 	 Write and use models for exponential growth and decay Graph models for exponential growth using a graphing calculator Apply exponential growth and decay models to real-life situations 	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	NJSLS MA 9-12 CED.2 F.IF.7e F.BF.3 F.LE.1 F.LE.2 F.LE.5 Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 9	CONTENT: Chapter 9				
Theme: Polynomials and Factoring	Theme: Polynomials and Factoring				
Essential Questions:					
How do you perform operations with po					
What are different techniques of factoring					
How can you use factoring to solve a qu					
Content (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:		
segment, students will know) • Section 9.1 (Add and Subtract Polynomials)	 segment, students will be able to) Add and subtract polynomials Use polynomials to model real-life situations. 	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.CS1 NJSLS MA 9-12 APR.1 F.IF.7c Time Frame: Algebra 1 RC: 3 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-		
		T mai Exam	Algebra 1 by Larson, ISBN-13: 9/8-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.		
			Smart board, internet research and activities, graph papers, color pencils.		

CONTENT: Chapter 9					
Theme: Polynomials and Factoring					
Essential Questions:					
How do you perform operations with po	olynomials?				
What are different techniques of factori					
How can you use factoring to solve a qu					
Content (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.8.1.12.A.CS1		
		following formative and summative	NJSLS MA 9-12		
• Section 9.2	Multiply polynomials by applying	measures:)	APR.1		
(Multiply Polynomials)	rules of exponents	- II			
	Apply polynomial multiplication in real-life situations.	Homework	Time Frame:		
	in real-life situations.	Warm up exercises			
		• Exit Tickets	Algebra 1 RC: 3 days		
		Group activities			
		Section quizzes			
		• Chapter tests			
		• Cumulative tests	Materials:		
		Projects / Presentations	Textbook: 2007 McDougal Littell		
		Midterm exam	Algebra 1 by Larson, ISBN-13: 978-0-		
		Final Exam	618-59556-3		
			Calculators: Ti 30xs,Ti-83/84 plus.		
			Smart board, internet research and		
			activities, graph papers, color pencils.		

CONTENT: Chapter 9				
nomials?				
Iratic equation?				
Skills (As a result of this learning regment, students will be able to) Use special product patterns for the product of a sum and a difference, and for the square of a binomial. Use special products as real-life models.	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.CS1 NJSLS MA 9-12 SSE.2 APR.1 APR.4 Time Frame: Algebra 1 RC: 3 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.		
]]	polynomials? ratic equation? kills (As a result of this learning egment, students will be able to) Use special product patterns for the product of a sum and a difference, and for the square of a binomial. Use special products as real-life	polynomials? ratic equation? kills (As a result of this learning egment, students will be able to) Use special product patterns for the product of a sum and a difference, and for the square of a binomial. Use special products as real-life models. 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		

CONTENT: Chapter 9			
Theme: Polynomials and Factoring			
•	ng polynomials?	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.CS1 NJSLS MA 9-12 APR.3 CED.1 REI.4b F.IF.8a Time Frame: Algebra 1 RC: 2 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3
			Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 9						
Theme: Polynomials and Factoring						
Essential Questions:						
How do you perform operations with po						
What are different techniques of factoring						
How can you use factoring to solve a qu						
Content (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.8.1.12.A.CS1			
		following formative and summative	NJSLS MA 9-12			
• Section 9.5 Factoring a Quadratic	• Factor a quadratic expression of	measures:)	CED.1			
Trinomial (ac method, when $a = 1$)			REI.4b			
	using the AC method	• Homework	F.IF.8a			
		Warm up exercises	SSE.3a			
		Exit Tickets	Time Frame:			
		Group activities	Algebra 1 RC: 3 days			
		Section quizzes				
		• Chapter tests				
		Cumulative tests				
		Projects / Presentations	Materials:			
		Midterm exam	Textbook: 2007 McDougal Littell			
		• Final Exam	Algebra 1 by Larson, ISBN-13: 978-0-			
			618-59556-3			
	010-39330-3					
			Calculators: Ti 30xs,Ti-83/84 plus.			
			Smart board, internet research and			
			activities, graph papers, color pencils.			
	1	1				

Theme: Polynomials and Factoring Essential Questions: How do you perform operations with polynomials? What are different techniques of factoring polynomials? Standards: 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 9.6 Factoring a Quadratic Trinomial (ac method, when a ≠ 1) • Factor a quadratic expression of the form ax² + bx + c when a ≠ 1 using the AC method • Homework F.IF.8a • Warm up exercises • Exit Tickets • Chapter tests • Chapter tests • Chapter tests • Chapter tests • Algebra 1 RC: 4 days • Midterm exam • Final Exam • Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 • Calculators: Ti 30xs,Ti-83/84 plus.	CONTENT: Chapter 9	CONTENT: Chapter 9				
How do you perform operations with polynomials? What are different techniques of factoring polynomials? How can you use factoring a ouadratic equation? Content (As a result of this learning segment, students will know) Section 9.6 Factoring a Quadratic Trinomial (ac method, when a ≠ 1) How can you use factoring polynomials? Skills (As a result of this learning segment, students will be able to) Factor a quadratic expression of the form ax² + bx + c when a ≠ 1 using the AC method Homework Homework Homework Homework Homework Homework Fir.B.aa SSE.3a APR.3 Fir.B.ab SSE.3a APR.3 Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3	Theme: Polynomials and Factoring					
What are different techniques of factoring polynomials? How can you use factoring to solve a quadratic equation? Content (As a result of this learning segment, students will know) Section 9.6 Factoring a Quadratic Trinomial (ac method, when a ≠ 1) • Factor a quadratic expression of the form ax² + bx + c when a ≠ 1 using the AC method • Homework (Baltic Homework) (Baltic Homework						
How can you use factoring to solve a quadratic equation?						
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.CS1• Section 9.6 Factoring a Quadratic Trinomial (ac method, when a ≠ 1)• Factor a quadratic expression of the form ax² + bx + c when a ≠ 1 using the AC method• HomeworkCED.1• Warm up exercises• Exit TicketsF.IF.8aSSE.3a• Exit Tickets• Group activities• Section quizzes• Chapter tests• Cumulative tests• Projects / Presentations• Midterm exam• Final ExamMaterials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3						
segment, students will know) Section 9.6 Factoring a Quadratic Trinomial (ac method, when a ≠ 1) Factor a quadratic expression of the form ax² + bx + c when a ≠ 1 using the AC method Factor a quadratic expression of the form ax² + bx + c when a ≠ 1 using the AC method Factor a quadratic expression of the form ax² + bx + c when a ≠ 1 using the AC method Factor a quadratic expression of the form ax² + bx + c when a ≠ 1 using the AC method Factor a quadratic expression of the form ax² + bx + c when a ≠ 1 using the AC method Factor a quadratic expression of the following formative and summative measures:) Homework Fir. 8a SSE.3a APR.3 Time Frame: Algebra 1 RC: 4 days Final Exam Final Exam Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3						
Smart board, internet research and activities, graph papers, color pencils.	Content (As a result of this learning segment, students will know) • Section 9.6 Factoring a Quadratic	 Skills (As a result of this learning segment, students will be able to) Factor a quadratic expression of the form ax² + bx + c when a ≠ 1 	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	TECH.8.1.12.A.CS1 NJSLS MA 9-12 CED.1 REI.4b F.IF.8a SSE.3a APR.3 Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and		

CONTENT: Chapter 10				
Theme: Quadratic Equations and Functions				
Essential Questions:				
How do we graph a quadratic function?				
What do the roots of a quadratic function				
What are different ways to solve a quad				
How do you determine the number of so				
 Content (As a result of this learning segment, students will know) Section 10.2 (Graph y = ax² + bx +c) Section 10.3 	 Skills (As a result of this learning segment, students will be able to) Graph quadratic functions using a graphing calculator 	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) • Homework	Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12 REI.4b	
Section 10.3 (Solve Quadratic Equations by Graphing)		 Warm up exercises Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam 	Time Frame: Algebra 1 RC: 3 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.	

CONTENT: Chapter 10					
Theme: Quadratic Equations and Func	tions				
Theme: Quadratic Equations and Functions Essential Questions: How do we graph a quadratic function? What do the roots of a quadratic function represent? What are different ways to solve a quadratic function? How do you determine the number of solutions a quadratic function has? Content (As a result of this learning segment, students will know) Skills (As a result of this learning segment, students will be able to) Questions will be assessed with the TECH.8.1.12.A.CS1					
 Section 10.6 (Solve Quadratic Equations using the Quadratic Formula) Section 10.7 (Interpret the Discriminant) 	 Decide whether a quadratic equation is factorable Use the quadratic formula to find the roots of a quadratic equation Use the discriminant to determine how many roots a quadratic equation has 	 following formative and summative measures:) Homework Warm up exercises Exit Tickets Group activities Section quizzes 	NJSLS MA 9-12 REI.4b Time Frame: Algebra 1 RC: 5 days		
		 Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam 	Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.		

CONTENT: Chapter 11

Theme: Radicals and Geometry Connections

Essential Questions:

What is a square root function and how is it graphed? What is a radical?

How do you simplify a radical?

How do you simplify a radical?			
How many solutions do radical equation			
	d to find a missing side in a right triangle?	•	
What is the converse of the Pythagorean	theorem used to determine?		
Content (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.8.1.12.A.CS1
		following formative and summative	NJSLS MA 9-12
• Section 11.1	• Use a graphing calculator to graph	measures:)	REI.4b
(Graph Square Root Functions)	a square root function		
	•	Homework	
		Warm up exercises	Time Frame:
		Exit Tickets	Algebra 1 RC: 2 days
		Group activities	
		Section quizzes	
		• Chapter tests	
		Cumulative tests	Madadala
		 Projects / Presentations 	Materials:
		Midterm exam	Textbook: 2007 McDougal Littell
			Algebra 1 by Larson, ISBN-13: 978-0-
		Final Exam	618-59556-3
			G 1 1
			Calculators: Ti 30xs,Ti-83/84 plus.
			Smart board, internet research and
			activities, graph papers, color pencils.
			activities, graph papers, color penens.

CONTENT: Chapter 11			
Theme: Radicals and Geometry Conne	ections		
Essential Questions:			
What is a square root function and how	is it graphed?		
What is a radical?			
How do you simplify a radical?			
What is a perfect square?			
How many solutions do radical equation	ns have?		
How is the Pythagorean theorem applied	d to find a missing side in a right triangle?	?	
What is the converse of the Pythagorean	theorem used to determine?		
Content (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.8.1.12.A.CS1
		following formative and summative	NJSLS MA 9-12
• Section 11.2	 Simplify radical expressions 	measures:)	REI.4b
(Simplify Radical Expressions)	Identify and evaluate perfect		
	square roots, where applicable	Homework	
		Warm up exercises	Time Frame:
		Exit Tickets	Algebra 1 RC: 3 days
		Group activities	1
		Section quizzes	
		Chapter tests	
		Cumulative tests	
		Projects / Presentations	Materials:
		Midterm exam	
		• Final Exam	Textbook: 2007 McDougal Littell
		Tillai Exam	Algebra 1 by Larson, ISBN-13: 978-0-
			618-59556-3
			Coloulatore, Ti 20ve Ti 92/94 -1
			Calculators: Ti 30xs,Ti-83/84 plus.

Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 11			
Theme: Radicals and Geometry Conne	ections		
Essential Questions: What is a square root function and how What is a radical? How do you simplify a radical? What is a perfect square? How are inverses applied to solve radic How many solutions do radical equatio	is it graphed? al equations?		
Content (As a result of this learning segment, students will know) • Section 11.3 (Solve Radical Equations)	 Skills (As a result of this learning segment, students will be able to) Simplify radical expressions Identify and evaluate perfect square roots, where applicable Solve radical equations 	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.CS1 NJSLS MA 9-12 REI.4b Time Frame: Algebra 1 RC: 3 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 11

Theme: Radicals and Geometry Connections

Essential Questions:

What is a square root function and how is it graphed?

What is a radical?

How do you simplify a radical?

What is a perfect square?

How are inverses applied to solve radical equations?
How many solutions do radical equations have?
How is the Pythagorean theorem applied to find missing side lengths in right triangles?

How is the Pythagorean theorem applied to find missing side lengths in right triangles?					
What is the converse of the Pythagorean theorem used to determine?					
Content (As a result of this learning segment, students will know) • Section 11.4 (Apply the Pythagorean Theorem and its Converse)	 Skills (As a result of this learning segment, students will be able to) Simplify radical expressions Identify and evaluate perfect square roots, where applicable Solve radical equations when applying the Pythagorean theorem and its converse 	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	Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12 REI.4b Time Frame: Algebra 1 RC: 4 days		
		 Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam 	Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.		

CONTENT: Chapter 11			
Theme: Radicals and Geometry Conne	ections		
Essential Questions: What is a square root function and how What is a radical? What is a perfect square? How is the distance formula derived fro What does the midpoint formula tell you	m the Pythagorean theorem?		
 Content (As a result of this learning segment, students will know) Section 11.5 (Apply the Distance and Midpoint Formula) 	 Skills (As a result of this learning segment, students will be able to) Simplify radical expressions Apply the distance formula to find the distance between two points 	Assessments (The above Essential Questions will be assessed with the following formative and summative measures:) • Homework	Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12 REI.4b
T Official)	Apply the midpoint formula to find the midpoint of two points	 Warm up exercises Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests 	Time Frame: Algebra 1 RC: 3 days
		 Projects / Presentations Midterm exam Final Exam 	Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0- 618-59556-3
			Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.

CONTENT: Chapter 12				
Theme: Rational Equations and Functi	ions			
Essential Questions: What is a polynomial? How do you divide two polynomials? What is a rational expression? How are rational expressions simplified Content (As a result of this learning	Skills (As a result of this learning	Assessments (The above Essential	Standards:	
 Section 12.3 (Divide Polynomials) 	 Divide polynomials using synthetic division Divide polynomials using long division 	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.CS1 NJSLS MA 9-12 REI.4b Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs, Ti-83/84 plus.	
			Smart board, internet research and activities, graph papers, color pencils.	

CONTENT: Chapter 12				
Theme: Rational Equations and Function	ons			
Essential Questions: What is a polynomial? How do you divide two polynomials? What is a rational expression? How are rational expressions simplified Content (As a result of this learning segment, students will know)		Assessments (The above Essential Questions will be assessed with the following formative and summative	Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12	
• Section 12.4 (Simplify Rational Expressions)	Simplify rational expressions using rules of exponents	 measures:) Homework Warm up exercises Exit Tickets Group activities Section quizzes Chapter tests 	REI.4b Time Frame: Algebra 1 RC: 4 days	
		 Cumulative tests Projects / Presentations Midterm exam Final Exam 	Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.	

CONTENT: Chapter 12				
Theme: Rational Equations and Functi	ons			
Essential Questions: What is a polynomial? How do you divide two polynomials? What is a rational expression? How are rational expressions simplified Content (As a result of this learning segment, students will know)	when multiplying and dividing? 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	Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12	
Section 12.5 (Multiply and Divide Rational Expressions)	 Multiply rational expressions using rules of exponents Divide rational expressions using rules of exponents 	 Measures:) Homework Warm up exercises Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam 	Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.	

CONTENT: Chapter 13				
Theme: Probability and Data Analysis				
Essential Questions: What is a biased sample? What is a biased question? How do you identify populations and sa How to analyze central tendency? How to analyze real-life data using Hist	mpling methods? ograms, Box-and-Whisker Plots, and Ste	m-and-Leaf Plots		
Content (As a result of this learning segment, students will know) • Section 13.1 (Find Probabilities and Odds)	 Skills (As a result of this learning segment, students will be able to) Find the probability of an event occurring Find the odds of an event occurring Apply probability and odds to real-life situations 	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.CS1 NJSLS MA 9-12 S.IC.1 S.IC.3 Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.	

CONTENT: Chapter 13				
Theme: Probability and Data Analysis				
Essential Questions: What is a biased sample? What is a biased question? How do you identify populations and sath How to analyze central tendency? How to analyze real-life data using Histortent (As a result of this learning segment, students will know)	ampling methods? tograms, Box-and-Whisker Plots, and Ste 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	Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12	
• Section 13.5 (Analyze Surveys and Samples)	 Conduct a survey to a sample population based on a topic of interest Analyze the data collected 	 measures:) Homework Warm up exercises Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests 	S.IC.1 S.IC.3 Time Frame: Algebra 1 RC: 4 days	
		 Projects / Presentations Midterm exam Final Exam 	Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Smart board, internet research and activities, graph papers, color pencils.	

CONTENT: Chapter 13

Essential Questions: What is a biased sample? What is a biased question? How do you identify populations and sampling methods? How to analyze central tendency? How to analyze central tendency? How to analyze central tendency? How to analyze real-life data using Histograms, Box-and-Whisker Plots, and Stem-and-Leaf Plots Content (As a result of this learning segment, students will know) Section 13.7 (Interpret Stem-and-Leaf Plots and Histograms) Construct a stem-and-lead plot based on given information Interpret data using a given stem-and-leaf plot Construct a histogram based on given information Interpret data and answer questions based on a given histogram Construct a histogram based on a given histogram Histogram Construct a histogram based on a given histogram based on a given histogram How to analyze central tendency? How to analyze central tendency: How to analyze central tendency: How assessed with the following seasessed with the following formative and summative measures:) SILS MA 9-12 S.IC.1 S.IC.3 Time Frame: Algebra 1 RC: 4 days How tendency: How the following formative and summative measures:) Capture tends on given information Histograms Histograms Final Exam Histograms Construct a histogram search and summative measures:) Exit Tickets Capture tends on given information Histograms Histograms Histogram	Theme: Probability and Data Analysis					
What is a biased question? How do you identify populations and sampling methods? How to analyze certal-tife data using Histograms, Box-and-Whisker Plots, and Stem-and-Leaf Plots Content (As a result of this learning segment, students will know) Section 13.7 (Interpret Stem-and-Leaf Plots and Histograms) Construct a stem-and-lead plot based on given information Interpret data using a given sand-leaf plot Construct a histogram based on given information Interpret data and answer questions based on a given histogram Interpret data and answer questions based on a given histogram Exit Tickets Group activities Section quizzes Chapter tests Cumulative tests Cumulative tests Cumulative tests Cumulative tests Projects / Presentations Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.	Essential Questions:					
How do you identify populations and sampling methods? How to analyze central tendency? How to analyze central tendency? How to analyze central tendency? Content (As a result of this learning segment, students will know) Scilin 13.7 (Interpret Stem-and-Leaf Plots and Histograms) • Construct a stem-and-lead plot based on given information • Interpret data using a given stem-and-leaf plot • Construct a histogram based on given information • Interpret data and answer questions based on a given histogram • Interpret data and answer questions based on a given histogram • Final Exam Skills (As a result of this learning segment, Skills (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) Skills (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) Skills (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) Skills (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) Skills (As a result of this learning segment, students will be able to) Succion swill be assessed with the following formative and summative measures:) Homework • Warm up exercises • Exit Tickets • Capter tests • Cumulative tests • Projects / Presentations • Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.	What is a biased sample?					
How to analyze central tendency? How to analyze real-life data using Histograms, Box-and-Whisker Plots, and Stem-and-Leaf Plots Content (As a result of this learning segment, students will know) Section 13.7 (Interpret Stem-and-Leaf Plots and Histograms) Construct a stem-and-lead plot based on given information Interpret data using a given stem-and-leaf plot Construct a stem-and-lead plot based on given information Interpret data and answer questions based on a given histogram Exit Tickets Carboqua ctivities Section quizzes Chapter tests Cumulative tests Cumulative tests Projects / Presentations Materials: Textbook: 2 4 days Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.						
How to analyze real-life data using Histograms, Box-and-Whisker Plots, and Stem-and-Leaf Plots Content (As a result of this learning segment, students will know) Skills (As a result of this learning segment, students will know) Section 13.7 (Interpret Stem-and-Leaf Plots and Histograms) Construct a stem-and-lead plot based on given information Interpret data using a given stem-and-lead plot based on given information Interpret data and answer questions based on a given histogram Interpret data and answer questions based on a given histogram Exit Tickets Group activities Section quizzes Chapter tests Projects / Presentations Midterm exam Final Exam Standards: TECH.8.1.12.A.CS1 NJSLS MA 9-12 S.IC.1 S.IC.3 Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.	How do you identify populations and sa	mpling methods?				
Skills (As a result of this learning segment, students will know) Section 13.7 (Interpret Stem-and-Leaf Plots and Histograms) Interpret data using a given information Interpret data and answer questions based on a given histogram Interpret data and answer questions based on a given histogram Interpret data and interpret data and instead on given information Interpret data and answer questions based on a given histogram Interpret data and instead on given information Interpret data and answer questions based on a given histogram Interpret data and instead on a given histogram Interpret data and instead on given information Interpret data and answer questions based on a given histogram Interpret data and instead on given information Interpret data and answer questions based on a given histogram Interpret data and instead on given information Interpret data and answer questions based on a given histogram Interpret data and instead on given information Interpret data and instead on given information Interpret data and instead on given information Interpret data using a given stem-and-lead plot based on given information Homework Warm up exercises Exit Tickets Cumulative tests Cumulative tests Cumulative tests Time Frame: Algebra 1 RC: 4 days Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.	•					
segment, students will know) Section 13.7 (Interpret Stem-and-Leaf Plots and Histograms) Histograms) • Construct a stem-and-lead plot based on given information • Interpret data using a given stem-and-leaf plot • Construct a histogram based on given information • Interpret data and answer questions based on a given histogram • Interpret data and answer questions based on a given histogram • Time Frame: Algebra 1 RC: 4 days Time Frame: Algebra 1 RC: 4 days Time Frame: Cumulative tests • Cumulative tests • Projects / Presentations • Midterm exam • Final Exam • Calculators: Ti 30xs,Ti-83/84 plus.						
 Section 13.7 (Interpret Stem-and-Leaf Plots and Histograms) Interpret data using a given information Interpret data and answer questions based on a given histogram Interpret data and answer questions based on a given histogram Final Exam Following formative and summative measures:) Homework Warm up exercises Exit Tickets Group activities Cumulative tests Projects / Presentations Midterm exam Final Exam Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs, Ti-83/84 plus. 	Content (As a result of this learning		· ·			
 Section 13.7 (Interpret Stem-and-Leaf Plots and Histograms) Construct a stem-and-lead plot based on given information Interpret data using a given stemand-leaf plot Construct a histogram based on given information Interpret data and answer questions based on a given histogram Midterm exam Final Exam S.IC.1 S.IC.3 Time Frame: Algebra 1 RC: 4 days Materials: 	segment, students will know)	segment, students will be able to)				
(Interpret Stem-and-Leaf Plots and Histograms) based on given information Interpret data using a given stem-and-leaf plot Construct a histogram based on given information Interpret data and answer questions based on a given histogram Interpret data and answer questions based on a given histogram Homework Warm up exercises Exit Tickets Section quizzes Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.			_			
Histograms) • Interpret data using a given stemand-leaf plot • Construct a histogram based on given information • Interpret data and answer questions based on a given histogram • Homework • Warm up exercises • Exit Tickets • Group activities • Section quizzes • Chapter tests • Cumulative tests • Projects / Presentations • Midterm exam • Final Exam • Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs, Ti-83/84 plus.	• Section 13.7		measures:)			
and-leaf plot Construct a histogram based on given information Interpret data and answer questions based on a given histogram Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam Materials: Time Frame: Algebra 1 RC: 4 days Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs, Ti-83/84 plus.	(Interpret Stem-and-Leaf Plots and	_		S.IC.3		
 Construct a histogram based on given information Interpret data and answer questions based on a given histogram Cincumplativities Section quizzes Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.	Histograms)	 Interpret data using a given stem- 	 Homework 			
given information Interpret data and answer questions based on a given histogram Cumulative tests Projects / Presentations Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.		and-leaf plot	 Warm up exercises 	Time Frame:		
 Interpret data and answer questions based on a given histogram Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs, Ti-83/84 plus. 			• Exit Tickets	Algebra 1 RC: 4 days		
questions based on a given histogram Chapter tests Cumulative tests Projects / Presentations Midterm exam Final Exam Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.			 Group activities 			
histogram Cumulative tests Projects / Presentations Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.	Interpret data and answer Section quizzes					
 Projects / Presentations Midterm exam Final Exam Materials: Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Calculators: Ti 30xs,Ti-83/84 plus. Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. Ti 30xs,Ti-83/84 plus.						
 Midterm exam Final Exam Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. 		histogram	 Cumulative tests 			
 Midterm exam Final Exam Textbook: 2007 McDougal Littell Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus. 			 Projects / Presentations 	Matariala		
• Final Exam Algebra 1 by Larson, ISBN-13: 978-0-618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.						
618-59556-3 Calculators: Ti 30xs,Ti-83/84 plus.			Final Exam			
Calculators: Ti 30xs,Ti-83/84 plus.						
				010-37330-3		
				Calculators: Ti 30vs Ti-83/84 plus		
Smart board_internet research and				Calculators. 11 30x5, 11-03/04 plus.		
				Smart board internet research and		
activities, graph papers, color pencils.				•		

CONTENT: Chapter 13

CONTENT. Chapter 15				
Theme: Probability and Data Analysis				
Essential Questions:				
What is a biased sample?				
What is a biased question?				
How do you identify populations and sa	mpling methods?			
How to analyze central tendency?				
How to analyze real-life data using Hist	ograms, Box-and-Whisker Plots, and Ster	n-and-Leaf Plots		
Content (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.8.1.12.A.CS1	
		following formative and summative	NJSLS MA 9-12	
• Section 13.8	• Construct a box-and-whisker plot	measures:)	S.IC.1	
(Interpret Box-and-Whisker Plots)	based on given information		S.IC.3	
	• Interpret data using a given box-	Homework		
	and-whisker plot	Warm up exercises	Time Frame:	
	•	Exit Tickets	Algebra 1 RC: 4 days	
		Group activities	Ingeria i ite	
		Section quizzes		
		• Chapter tests		
		Cumulative tests		
		Projects / Presentations	Materials:	
		Midterm exam		
		Final Exam	Textbook: 2007 <i>McDougal Littell</i> Algebra 1 by Larson, ISBN-13: 978-0-	
		Tillal Exam	618-59556-3	
			018-39330-3	
			Calculators: Ti 30xs,Ti-83/84 plus.	
			Smart board, internet research and	
			activities, graph papers, color pencils.	