

*A Comprehensive Approach
to Balanced Mathematics*

FOUR-SEMESTER PACING

PLANNING FOR MATH A

A⁴



The New York City Department of Education

Teaching with Prentice Hall *Math A*

Prentice Hall *Math A* is designed to challenge students and enable them to attain success in mathematics. The authors of the program accomplish this through the following means:

- The main content strands of mathematics—Algebra, Geometry, Measurement, Data Analysis, and Probability—are woven throughout the text. Students see the connections among mathematical topics and are able to apply concepts more readily.
- Problem solving is integrated into every lesson to provide adequate practice with this important skill.
- Work Together activities are built into many lessons to encourage students to discover concepts in a hands-on environment.
- Real-world applications are infused into every lesson. Students are never left wondering “When will I ever use this in real life?”
- Technology tools are incorporated in optional activities that help students visualize abstract math concepts.
- Daily Mixed Review exercises help students maintain skills learned in previous lessons. These important exercises should be part of every assignment.
- Exercise sets provide the right mix of practice, applications, and critical thinking questions.
- Lessons are divided into parts by objective to allow for varied pacing requirements.
- Try This questions after worked-out examples allow teachers to continually assess students’ progress as they work through each lesson.
- Writing exercises require students to use critical thinking skills to communicate mathematically.

Suggested List of Manipulatives and Materials for *New York Math A* (Prentice Hall)

MATERIALS

Compasses (30) (*safety issues require plastic version)

Blank transparencies (one package)

Overhead markers (one set)

Dry-erase markers (one set)

Scissors (round tip plastic type)

Graph paper (two packages)

Isometric graph paper (two packages)

Dice (36)

Measuring tapes (5)

Easel graph paper (self adhesive) (2 pads)

Isometric wooden blocks (100) (about 2cm³)

Geoboards (15)

Pattern tiles (15 sets)

Algebra tiles (15 sets) (See table)

ALGEBRA TILES SET

Quantity	Color	Dimensions (recommended)
30	Yellow	1 cm x 1 cm
30	Red	1 cm x 1 cm
10	Red	1 cm x 5.3 cm
10	Green	1 cm x 5.3 cm
6	Blue	5.3 cm x 5.3 cm
6	Red	5.3 cm x 5.3 cm

EQUIPMENT

Overhead Projector

Graphing Calculators

Access to Computer Labs

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PACING	NEW YORK MATH A	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM
	Chapter / Lesson / Unit			Key Ideas / Performance Indicators	Includes	Math A Exam Month / Year / Problem Link: www.jmap.org
SEMESTER A BEGINS	CHAPTER 1: TOOLS OF ALGEBRA					
	Lesson 1-1: Displaying Data Relationships with Graphs					
	NYS Core: 4A, 5D					
	DAY 1	Part 1: Finding Mean, Median, and Mode	Work Together; Questions 1-10; Example 1	<u>On Your Own</u> Questions 4-9 For Extension: 14-17 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 21	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures, and graphs. 5: Measurement 5D: Use statistical methods including the measures of central tendency to describe and compare data.	<ul style="list-style-type: none"> Collecting and organizing data: sampling, tally, chart, frequency table, circle graphs, broken line graphs, frequency histogram, box and whisker plots, scatter plots, stem and leaf plots, and cumulative frequency histogram.
DAY 2	Part 2: Drawing and Interpreting Graphs	Examples 2-3; Questions 11-17	<u>On Your Own</u> Questions 1-3, 10, 11 For Extension: 12, 13 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 22	<u>Mean Median Mode</u> June 1999, #29 August 1999, #13 January 2000, #5, #26 June 2000, #17 August 2000, #8 January 2001, #18 August 2001, #10 January 2002, #30 June 2002, #4 August 2002, #27		
DAY 3	Skills Review: <ul style="list-style-type: none"> Stem & Leaf Plots Box and Whisker Plots 	Questions 4-6, p. 10 Questions 2, 4, 5, 7, 10, p. 450	Questions 1-3, p. 10 Questions 1, 3, 6, 8, 9, p. 450	<u>Stem/Leaf (as optional method)</u> January 2001, #32		

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 1-2: Modeling Relationships with Variables						
NYS Core: 3A, 4A						
DAY 4	Modeling Relationships with Variables	Examples 1-2; Questions 1-13	<u>On Your Own</u> Questions 1-4, 7-18, 20-22 For Extension: 5,6,19,23-25 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 23	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs	<ul style="list-style-type: none"> • Use of variables: order of operations and evaluating algebraic expressions and formulas. • Simplification of algebraic expressions. • Use of variables/Algebraic representations. • Formulas and literal equations. • Inequalities. 	June 2000, #14 June 2001, #1

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				Key Ideas / Performance Indicators	Includes	
Lesson 1-3: Order of Operations						
NYS Core: 3A, 4A						
DAY 5	Part 1: Evaluating Expressions	Work Together; Examples 1-3; Questions 1-9	<u>On Your Own</u> Questions 1-5, 7,9 For Extension: 13,14,29-32 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 24	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs	<ul style="list-style-type: none"> • Use of variables: order of operations and evaluating algebraic expressions and formulas. • Simplification of algebraic expressions. • Use of variables/Algebraic representations. 	June 1999, #11 August 2001, #13
	DAY 6	Part 2: Evaluating Expressions with Grouping Symbols	Example 4; Questions 10-13			

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				Key Ideas / Performance Indicators	Includes	
Lesson 1-4: Adding and Subtracting Integers						
NYS Core: 3A						
DAY 7	Part 1: Adding Integers and Decimals	Work Together; Example 1; Questions 1-12	<u>On Your Own</u> Questions 3-12, 29-31, 38, 42, 44,45 For Extension: 1, 2, 32, 33, 46, 51-54 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 26	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions.	• Signed numbers.	August 1999, #10 January 2001, #20
DAY 8	Part 2: Subtracting Integers and Decimals	Examples 2-3; Questions 13-17	<u>On Your Own</u> Questions 13-28, 36-37, 39-41, 47-50, 55 For Extension: 34, 35, 43, 56			

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				Key Ideas / Performance Indicators	Includes	
Lesson 1-5: Multiplying and Dividing Integers						
NYS Core: 3A						
DAY 9	Part 1: Multiplying and Dividing	Work Together; Examples 1-2; Questions 1-10	<u>On Your Own</u> Questions 1-8, 11, 13-15 For Extension: 17, 18, 32-39 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 28	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions.	<ul style="list-style-type: none"> Signed numbers. 	June 2002, #17
DAY 10	Part 2: Simplifying Expressions with Exponents	Example 3; Questions 11-15	<u>On Your Own</u> Questions 4, 9, 10, 12, 16, 19-31 For Extension: 40-45, 47, 48 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 29			

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				Key Ideas / Performance Indicators	Includes	
Lesson 1-6: Real Numbers and Rational Numbers						
NYS Core: 2A, 2B, 2C, 3A						
DAY 11	Part 1: Comparing Rational Numbers	Examples 1-2; Questions 1-7	<u>On Your Own</u> Questions 1-12, 25-28 For Extension: 29, 30, 35 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 30	2: Number and Numeration 2A: Understand and use irrational numbers. 2B: Recognize the order of real numbers. 2C: Apply the properties of real numbers to various subsets of numbers. 3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions.	<ul style="list-style-type: none"> Real numbers including irrational numbers such as non-repeating decimal, irrational roots, and pi. Properties of real numbers including closure, commutative, associative, and distributive properties, and inverse and identity elements. Signed numbers. Simplification of fractions. Division of fractions. Prime factorization. 	June 1999, #17 <u>Evaluating algebraic expressions with fractions/signed numbers</u> August 1999, #8 January 2000, #15 June 2000, #21
DAY 12	Part 2: Evaluating Expressions	Examples 3-5; Questions 8-11	<u>On Your Own</u> Questions 13-24, 31-34 For Extension: 36-45 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 31			

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				Key Ideas / Performance Indicators	Includes	
NY 12: Properties of Real Numbers NYS Core: 2C						
DAY 13	Properties of Real Numbers	Examples 1-4; Questions 1-6	<u>On Your Own</u> For Extension: 1-6, 8, 11, 16-18, 20, 29, 42	2: Number and numeration 2C: Apply the properties of real numbers to various subsets of numbers.	<ul style="list-style-type: none"> Properties of real numbers including closure, commutative, associative, and distributive properties, and inverse and identity elements. 	August 1999, #7 June 2000, #11 January 2001, #7 June 2001, #8 <u>Closure</u> August 2001, #29 August 2000, #10 August 2001, #12 June 2002, #24 August 2002, #22
Lesson 1-7: Experimental Probability and Simulations NYS Core: 6A, 6B						
DAY 14	Part 1: Finding Experimental Probability	Work Together; Example 1; Questions 1-5	<u>On Your Own</u> Questions 1-5, 7-10 For Extension: 6, 11 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 32	6: Uncertainty 6A: Judge the reasonableness of results obtained from applications in algebra, geometry, trigonometry, probability, and statistics. 6B: Use experimental and theoretical probability to represent and solve problems involving uncertainty.	<ul style="list-style-type: none"> Theoretical versus empirical probability. Single and compound events. Problems involving <i>and</i> and <i>or</i>. Probability of the complement of an event. 	
DAY 15	Part 2: Conducting a Simulation	Example 2; Questions 6-7	<u>On Your Own</u> Questions 12-19 For Extension: 20-22 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 33			

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				Key Ideas / Performance Indicators	Includes	
NY 10: Probability Distributions						
NYS Core: 6C						
DAY 16	Probability Distributions	Examples: 1-3; Questions 1-5	<u>On Your Own</u> Questions 1-6,10	6: Uncertainty 6C: Use the concept of random variable in computing probabilities	<ul style="list-style-type: none"> Probability distribution. 	
NY 9: Cumulative Frequency and Percentiles						
NYS Core: 5D						
DAY 17	Cumulative Frequency and Percentiles	Examples: 1-3; Questions 1-8	<u>On Your Own</u> Questions 1–10, 12	5: Measurement 5D: Use statistical methods including the measures of central tendency to describe and compare data.	<ul style="list-style-type: none"> Cumulative frequency histogram Quartiles and percentiles 	

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	Chapter / Lesson / Unit			Key Ideas / Performance Indicators	Includes	Math A Exam Month / Year / Problem Link: www.jmap.org
SEMESTER A	CHAPTER 2: FUNCTIONS AND THEIR GRAPHS					
	Lesson 2-1: Analyzing Data Using Scatter Plots					
	NYS Core: 4A, 5D					
DAY 18	Part 1: Drawing and Interpreting Scatter Plots	Work Together; Example 1; Questions 1-7	<u>On Your Own</u> Questions 17, 19, 20, 22 For Extension: 11, 18, 21 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 36	4: Modeling/Multiple Representations 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs. 5: Measurement 5D: Use statistical methods including the measures of central tendency to describe and compare data.	<ul style="list-style-type: none"> Collecting and organizing data: sampling, tally, chart, frequency table, circle graphs, broken line graphs, frequency histogram, box and whisker plots, scatter plots, stem and leaf plots, and cumulative frequency histogram. 	
DAY 19	Part 2: Analyzing Trends in Data	Example 2; Questions 8-9	<u>On Your Own</u> Questions 1-8, 12-15 For Extension: 9, 10, 16 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 37			

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				Key Ideas / Performance Indicators	Includes	
Lesson 2-2: Relating Graphs to Events						
NYS Core: 5D, 7C, 7D						
DAY 20	Part 1: Interpreting Graphs	Example 1; Questions 1-3	<u>On Your Own</u> Questions 1-4, 17-19 For Extension: 5	5: Measurement 5D: Use statistical methods including the measures of central tendency to describe and compare data. 7: Patterns/Functions 7C: Translate among the verbal descriptions, tables, equations, and graphic forms of functions. 7D: Model real-world situations with the appropriate function.	<ul style="list-style-type: none"> Collecting and organizing data: sampling, tally, chart, frequency table, circle graphs, broken line graphs, frequency histogram, box and whisker plots, scatter plots, stem and leaf plots, and cumulative frequency histogram. Translate linear and quadratic functions, systems of equations, inequalities and quadratic linear pairs between representations that are verbal descriptions, tables, equations, or graphs. Determine and model real-life situations with appropriate functions. 	January 2001, #21
	Part 2: Sketching Graphs	Example 2; Questions 4-5	<u>Resource Pro CD</u> Two Year Algebra Handbook, pp. 38, 39			
DAY 21	Part 3: Classifying Data	Example 3; Question 6; Work Together; Questions 7-8	<u>On Your Own</u> Questions 7-14 For Extension: 15 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 40			

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				Key Ideas / Performance Indicators	Includes	
Lesson 2-3: Linking Graphs to Tables						
NYS Core: 7C, 7D						
DAY 22	Linking Graphs to Tables	Work Together; Example; Questions 1-10	<u>On Your Own</u> Questions 1-9, 11, 12 For Extension: 10, 13, 14 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 41	7: Patterns/Functions 7C: Translate among the verbal descriptions, tables, equations, and graphic forms of functions. 7D: Model real-world situations with the appropriate function.	<ul style="list-style-type: none"> Translate linear and quadratic functions, systems of equations, inequalities and quadratic linear pairs between representations that are verbal descriptions, tables, equations, or graphs. Determine and model real-life situations with appropriate functions. 	June 2001, #28

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				Key Ideas / Performance Indicators	Includes	
Lesson 2-4: Functions						
NYS Core: 7A, 7C, 7D						
DAY 23-24	Part 1: Identifying Relations and Functions Part 3: Analyzing Graphs	Example 1; Questions 1-3; Question 7 Work Together; Questions 8-9	<u>On Your Own</u> Questions 9-11, 13-21 For Extension: 22, 23, 38, 51-53 <u>Resource Pro CD</u> Two Year Algebra Handbook, pp. 42, 44	7: Patterns/Functions 7A: Recognize and analyze functions, using verbal descriptions, tables, equations, and graphs. 7C: Translate among the verbal descriptions, tables, equations, and graphic forms of functions. 7D: Model real-world situations with the appropriate function.	<ul style="list-style-type: none"> Graphs of linear relations: slope and intercept. Graphs of conics: circle and parabola. Translate linear and quadratic functions, systems of equations, inequalities and quadratic linear pairs between representations that are verbal descriptions, tables, equations, or graphs. Determine and model real-life situations with appropriate functions. 	
	DAY 25	Part 2: Evaluating Functions	Examples 2-3; Questions 4-6			

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				Key Ideas / Performance Indicators	Includes	
Lesson 2-5: Writing a Function Rule						
NYS Core: 7A, 7B, 7C						
DAY 26	Part 1: Understanding Function Notation Part 2: Using a Table of Values	Questions 1-2 Example 1; Questions 3-4	<u>On Your Own</u> Questions 1-8, 12-14, 26-29 For Extension: 10, 11, 31 <u>Resource Pro CD</u> Two Year Algebra Handbook, pp. 45, 46	7: Patterns/Functions 7A: Recognize and analyze functions, using verbal descriptions, tables, equations, and graphs. 7B: Apply linear and quadratic functions in the solution of problems. 7C: Translate among the verbal descriptions, tables, equations, and graphic forms of functions	<ul style="list-style-type: none"> Graphs of linear relations: slope and intercept. Graphs of conics: circle and parabola Graphic and algebraic solutions of linear and quadratic functions in the solution of problems. Translate linear and quadratic functions, systems of equations, inequalities and quadratic linear pairs between representations that are verbal descriptions, tables, equations, or graphs 	January 2002, #11
	DAY 27	Part 3: Using Words to Write a Rule	Examples 2-3; Questions 5-8			

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				Key Ideas / Performance Indicators	Includes	
Lesson 2-6: Three Views of a Function						
NYS Core: 7A, 7C, 7D						
DAY 28	The Three Views of a Function	Examples 1-3; Questions 1-8	<u>On Your Own</u> Questions 1-8, 12-30 For Extension: 9-11, 31-35 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 48	7: Patterns/Functions 7A: Recognize and analyze functions, using verbal descriptions, tables, equations, and graphs. 7C: Translate between the verbal descriptions, tables, equations, and graphic forms of functions. 7D: Model real-world situations with the appropriate function.	<ul style="list-style-type: none"> Graphs of linear relations: slope and intercept. Graphs of conics: circle and parabola. Translate linear and quadratic functions, systems of equations, inequalities and quadratic linear pairs between representations that are verbal descriptions, tables, equations, or graphs. Determine and model real-life situations with appropriate functions. 	

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				Key Ideas / Performance Indicators	Includes	
Lesson 2-8: The Probability Formula						
NYS Core: 4A, 6A, 6B, 6C						
DAY 29	Part 1: Finding Theoretical Probability	Examples 1-2; Questions 1-5	<u>On Your Own</u> Questions 1-9, 12, 15-21, 23-30, 41, 42 For Extension: 14, 39, 40 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 52	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs. 6: Uncertainty 6A: Judge the reasonableness of results obtained from applications in algebra, geometry, trigonometry, probability, and statistics. 6B: Use experimental and theoretical probability to represent and solve problems involving uncertainty. 6C: Use the concept of random variable in computing probabilities.	<ul style="list-style-type: none"> • Sample spaces: list of ordered pairs of n-tuples, tree diagrams. • Theoretical versus empirical probability. • Single and compound events. • Problems involving <i>and</i> and <i>or</i>. • Probability of the complement of an event. • Mutually exclusive and independent events. • Counting principle. • Sample space. 	June 1999, #1 August, 1999, #22 January 2000, #17 June 2002, #2
NY 1: Open and Closed Sentences						
NYS Core: 1A						
DAY 30	Open and Closed Sentences	Examples 1-2; Questions 1-3	<u>On Your Own</u> Questions 8-12, 15-20, 27,32,36, 48	1: Mathematical Reasoning 1A: Construct valid arguments	<ul style="list-style-type: none"> • Truth-value of simple sentences (closed sentences, open sentences with replacement set and solution set, negations). 	

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	Chapter / Lesson / Unit			Key Ideas / Performance Indicators	Includes	Math A Exam Month / Year / Problem Link: www.jmap.org
SEMESTER A	CHAPTER 3: ALGEBRAIC CONCEPTS AND SIMPLE EQUATIONS					
	Lesson 3-1: Modeling and Solving Equations					
	NYS Core: 4A, 7E					
	DAY 31	Part 1: Solving Addition and Subtraction Equations	Example 1; Questions 1-3	<u>On Your Own</u> Questions 4, 5, 7, 12 For Extension: 10, 11, 28, 29 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 53	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs. 7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> • Use of variables/algebraic representations. • Formulas and literal equations. • Techniques for solving equations and inequalities. • Solve linear equations with integral, fraction, or decimal coefficients
DAY 32	Part 2: Solving Multiplication and Division Equations	Example 2; Questions 4-8	<u>On Your Own</u> Questions 3, 6, 16-27, 39-50 For Extension: 8, 9, 30, 31 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 54			
DAY 33	Part 3: Modeling by Writing Equations	Example 3; Question 9 <u>On Your Own</u> Questions 32-34	<u>On Your Own</u> Questions 1, 2, 14, 15, 35-38, 51, 52, 54 For Extension: 13, 53, 72 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 55			

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				Key Ideas / Performance Indicators	Includes	
Lesson 3-2: Modeling and Solving Two-Step Equations						
NYS Core: 3D, 4A, 7E						
DAY 34	Part 1: Using Tiles	Work Together; Example 1; Question 1-4	<u>On Your Own</u> Questions 1-11 For Extension: 24-26, 50, 51, 60, 61 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 56	3: Operations 3D: Use field properties to justify mathematical procedures. 4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Distributive field property as related to factoring. Use of variables/ Algebraic representations. Solve linear equations with integral, fraction, or decimal coefficients. 	June 1999, #25 August 2002, #19
DAY 35	Part 2: Using Properties	Examples 2-3; Questions 5-9	<u>On Your Own</u> Questions 12-23, 27-46, 52-59 For Extension: 47-49 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 57	7: Patterns/Functions 7E: Apply axiomatic structure to algebra.		
Lesson 3-3: Combining Like Terms to Solve Equations						
NYS Core: 3A, 7E						
DAY 36 - 37	Part 1: Combining Like Terms Part 2: Solving Equations	Work Together; Example 1; Questions 1-4 Examples 2-3; Questions 5-6	<u>On Your Own</u> Questions 1, 3-13 For Extension: 2, 24, 25 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 58	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Signed numbers. Use of variables: order of operations and evaluating algebraic expressions and formulas. Solve linear equations with integral, fraction, or decimal coefficients. 	June 1999, #13 August 1999, #16 January 2000, #6, #22 August 2000, #24 January 2001, #4, #25 June 2001, #23 August 2001, #32 June 2002, #11, #14

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				Key Ideas / Performance Indicators	Includes	
Lesson 3-4: Using the Distributive Property						
NYS Core: 2C, 3A, 3D						
DAY 38	Part 1: Simplifying Variable Expressions	Work Together; Questions 1-4	<u>On Your Own</u> Questions 1-3, 6-7, 43-48 For Extension: 4, 5, 18, 19, 20, 42 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 60	2: Number and Numeration 2C: Apply the properties of real numbers to various subsets of real numbers. 3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 3D: Use field properties to justify mathematical procedures.	<ul style="list-style-type: none"> Properties of real numbers including closure, commutative, associative, and distributive properties, and inverse and identity elements. Use of variable: order of operations and evaluating algebraic expressions. Distributive field property as related to factoring. 	August 2000, #15 June 2001, #8
DAY 39	Part 2: Solving and Modeling Equations	Examples 1-2; Question 5 <u>On Your Own</u> Questions 37-39	<u>On Your Own</u> Questions 21-36 For Extension: 40-41 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 61			

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				Key Ideas / Performance Indicators	Includes	
Lesson 3-5: Rational Numbers and Equations						
NYS Core: 2A, 7E						
DAY 40	Part 1: Multiplying by a Reciprocal	Example 1; Questions 1-3	<u>On Your Own</u> Questions 1-8, 14, 15, 17, 19-27, 54 For Extension: 10-13, 55 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 62	2: Number and Numeration 2A: Understand and use rational and irrational numbers. 7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Real numbers including irrational numbers such as non-repeating decimals, irrational roots, and pi. Solve linear equations with integral, fraction, or decimal coefficients. 	June 2001, #11 August 2001, #14 June 2000, #10
	Part 2: Multiplying by a Common Denominator	Examples 2-3; Questions 4-6	<u>On Your Own</u> Questions 16, 18, 28-53 For Extension: 9, 37, 38, 56, 57 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 63			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 3-6: Using Probability						
NYS Core: 6B, 6C						
DAY 42	Part 1: Finding the Probability of Independent Events	Work Together; Example 1; Questions 1-5	<u>On Your Own</u> Questions 1-3, 5, 7-16, 30, 37 For Extension: 4 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 64	6: Uncertainty 6B: Use experimental and theoretical probability to represent and solve problems involving uncertainty. 6C: Use the concept of random variable in computing probabilities.	<ul style="list-style-type: none"> • Single and compound events. • Problems involving <i>and</i> and <i>or</i>. • Probability of the complement of an event. • Mutually exclusive and independent events. • Counting principle. • Sample space. 	June 1999, #32 August 1999, #22b January 2001, #6 January 2001, #26 June 2001, #30 January 2002, #9 June 2002, #34
	DAY 43	Part 2: Finding the Probability of Dependent Events	Example 2; Questions 6-7			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 3-7: Percent Equations						
NYS Core: 2A, 7E						
DAY 44	Part 1: Solving Percent Equations	Questions 1-3; Examples 1-3; Questions 4-7	<u>On Your Own</u> Questions 1-9, 13, 15-26-28, 31-35 For Extension: 14, 30 <u>Resource Pro CD</u> Two Year Algebra Handbook, pp. 67, 68	2: Number and Numeration 2A: Understand and use rational and irrational numbers. 7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Real numbers including irrational numbers such as non-repeating decimals, irrational roots, and pi. Solve linear equations with integral, fraction, or decimal coefficients. 	June 1999, #10 August 1999, #30 January 2000, #9 August 2000, #29 January 2001, #22 June 2001, 16 June 2002, #22, #23 August 2002, #25 January 2003, #25
	Part 2: Writing Equations to Solve Percent Problems					
DAY 45	Part 3: Simple Interest	Example 4, Questions 8-9; Work Together	<u>On Your Own</u> Questions 36-39 For Extension: 11, 29 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 69			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 3-8: Percent of Change						
NYS Core: 2A						
DAY 46	Percent of Change	Examples 1-2; Questions 1-4	<u>On Your Own</u> Questions 1-20, 22-34, 39-44 For Extension: 21, 35-38, 45 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 70	2: Numbers and Numeration 2A: Understand and use rational and irrational numbers.	<ul style="list-style-type: none"> Real numbers including irrational numbers such as non-repeating decimals, irrational roots, and pi. 	January 2003, #22
NY 11: Percent of Error						
NYS Core: 5H						
DAY 47	Percent of Error	Examples: 1-4; Questions 1-7	<u>On Your Own</u> Questions 1-6, 8, 10, 15, 17	5: Measurement 5H: Explain the role of error in measurement and its consequence on subsequent calculations.	<ul style="list-style-type: none"> Percent of error in measurement. 	January 2003, #22

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
SEMESTER A	CHAPTER 4: EQUATIONS AND INEQUALITIES					
	Lesson 4-1: Using Proportions					
	NYS Core: 5B, 5F, 7E					
	DAY 48	Part 1: Using Properties of Equality	Work Together; Example 1; Questions 1-3	<u>On Your Own</u> Questions 24-31 For Extension: 38, 39 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 71	5: Measurement 5B: Choose and apply appropriate units and tools in measurement situations. 5F: Apply proportions to scale drawings and direct variations.	<ul style="list-style-type: none"> • Converting to equivalent measurements with metric and English measurement systems. • Ratio. • Proportion. • Scale drawings. • Similar figures.
DAY 49	Part 2: Using Cross Products	Examples 2-3 Questions 4-6	<u>On Your Own</u> Questions 7-8, 32-35 For Extension: 23, 40-42 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 72	7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> • Similar polygons: ratio of perimeters and areas. • Solve linear equations with integral, fraction, or decimal coefficients. 	<u>Similarity</u> June 2000, #24 August 2000, #21 June 2001, #24 January 2002, #22 June 2002, #8
DAY 50	Part 3: Solving Percent Problems Using Proportions	Example 4; Questions 7-8 <u>On Your Own</u> Questions 37, 43	<u>On Your Own</u> Questions 9-20 For Extension: 21, 22, 36 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 73			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 4-2: Equations With Variables on Both Sides						
NYS Core: 3D, 7E						
DAY 51	Part 1: Using Tiles to Solve Equations	Work Together; Example 1; Questions 1-8	<u>On Your Own</u> Questions 1, 3-6, 22-24, 44-46 For Extension: 2, 7, 32 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 74	3: Operations 3D: Use field properties to justify mathematical procedures. 7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Distributive and associative field properties as related to the solution of quadratic equations. Distributive field property as related to factoring. Solve linear equations with integral, fraction, or decimal coefficients. 	August 1999, #21 January 2000, #27, #35 June 2001, #17 January 2002, #14
DAY 52	Part 2: Using Properties of Equality	Examples 2-3; Questions 9-11	<u>On Your Own</u> Questions 14, 15, 25-27, 47-49 For Extension: 34, 35, 42, 43, 53 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 75			
DAY 53	Part 3: Solving Special Types of Equations	Examples 4-5; Questions 12-14 <u>On Your Own</u> Questions 33, 36-41	<u>On Your Own</u> Questions 8-13, 16-21, 28-30, 50-52 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 76			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 4-4: Transforming Formulas						
NYS Core: 3A, 4A						
DAY 54	Transforming Formulas	Examples 1-4; Questions 1-6	<u>On Your Own</u> Questions 1-8, 14-23 For Extension: 9, 24-27 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 79	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 4: Modeling/Multiple Representations. 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Use of variables: order of operations and evaluating algebraic expressions and formulas. Use of variables/ Algebraic representations. Formulas and literal equations. 	<u>Literal equations</u> June 1999, #22 January 2000, #11 January 2001, #16 June 2002, #19 August 2002, #18

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 4-5: Solving Inequalities Using Addition and Subtraction						
NYS Core: 2B, 4A, 7E						
DAY 55	Part 1: Graphing and Writing Inequalities	Work Together; Questions 1-7	<u>On Your Own</u> Questions 1-6, 8-12 For Extension: 7, 16-21 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 80	2: Number and Numeration 2B: Recognize the order of real numbers. 4: Modeling/Multiple Relationships 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Rational approximations of irrational numbers. Inequalities. Solve linear inequalities. 	
DAY 56	Part 2: Using Addition to Solve Inequalities	Example 1; Questions 8-10 <u>On Your Own</u> Questions 50, 51	<u>On Your Own</u> Questions 13, 15, 25-36 For Extension: 52-56 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 81	7: Patterns/Functions 7E: Apply axiomatic structure to algebra.		
DAY 57	Part 3: Using Subtraction to Solve Inequalities	Example 2; Questions 11-14 <u>On Your Own</u> Question 49	<u>On Your Own</u> Questions 14, 23, 24, 37-48 For Extension: 22, 57 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 82			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 4-6: Solving Inequalities Using Multiplication and Division						
NYS Core: 2B, 4A, 7E						
DAY 58	Part 1: Solving Inequalities Using Multiplication	Work Together; Examples 1-2; Questions 1-7	<u>On Your Own</u> Questions 5-10, 17-22, 32-39 For Extension: 25, 30, 44-46 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 83	2: Number and Numeration 2B: Recognize the order of real numbers. 4: Modeling/Multiple Relationships 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Rational approximations of irrational numbers. Inequalities. Solve linear inequalities. 	January 2001, #1 <u>Inequality properties</u> August 2000, #6
DAY 59	Part 2: Solving Inequalities Using Division	Example 3; Questions 8-11	<u>On Your Own</u> Questions 1-4, 11-16, 31, 40-43 For Extension: 23, 24, 26-29 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 84	7: Patterns/Functions 7E: Apply axiomatic structure to algebra.		

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 4-7: Solving Multi-Step Inequalities						
NYS Core: 2B, 4A, 7E						
DAY 60	Part 1: Solving with Variables on One Side	Examples 1-2; Questions 1-2 <u>On Your Own</u> Questions 38-39	<u>On Your Own</u> Questions 1-7, 9-15, 17-18 For Extension: 16, 28, 40 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 85	2: Number and Numeration 2B: Recognize the order of real numbers. 4: Modeling/Multiple Relationships 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Rational approximations of irrational numbers. Inequalities. Solve linear inequalities. 	June 2001, #18, #27 August 2001, #15 August 2002, #24
DAY 61	Part 2: Solving with Variables on Both Sides	Example 3; Questions 3-5 <u>On Your Own</u> Questions 27, 42	<u>On Your Own</u> Questions 8, 20-26, 29-37 For Extension: 41, 43 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 86	7: Patterns/Functions 7E: Apply axiomatic structure to algebra.		

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 4-8: Compound Inequalities						
NYS Core: 2B, 7E						
DAY 62	Part 1: Solving Compound Inequalities Joined by <i>And</i> (Goes beyond what's on Math A)	Examples 1-2; Questions 1-3, 5b	<u>On Your Own</u> Questions 1- 5, 13-14, 21-23 For Extension: 7, 8, 25-26, 45-48 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 87	2: Number and Numeration 2B: Recognize the order of real numbers. 7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Rational approximations of irrational numbers. Solve linear equations with integral, fraction, or decimal coefficients. 	<u>$a < x < b$ type only</u> June 2000, #1 January 2002, #13
Lesson 4-9: Interpreting Solutions						
NYS Core: 2B, 6A						
DAY 63	Part 2: Determining a Reasonable Answer	Example 2; Questions 3-4 <u>On Your Own</u> Questions 21, 23	<u>On Your Own</u> Questions 17-20 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 91	2: Number and Numeration 2B: Recognize the order of real numbers. 6: Uncertainty 6A: Judge the reasonableness of results obtained from applications in algebra, geometry, trigonometry, probability, and statistics.	<ul style="list-style-type: none"> Rational approximations of irrational numbers. 	

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PACING	NEW YORK MATH A	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM
	Chapter / Lesson / Unit			Key Ideas / Performance Indicators	Includes	Math A Exam Month / Year / Problem Link: www.jmap.org
SEMESTER B BEGINS	CHAPTER 5: GRAPHING AND WRITING LINEAR EQUATIONS					
	Lesson 5-1: Slope					
	NYS Core: 4A, 5G					
	DAY 1	Part 1: Counting Units to Find Slope	Work Together; Examples 1-2; Questions 1-4	<u>On Your Own</u> Questions 1, 2, 22-24 For Extension: 2, 24, 31 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 92	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs. 5: Measurement 5G: Relate absolute value, distance between two points, and the slope of a line to the coordinate plane.	<ul style="list-style-type: none"> Parallel and intersecting lines and perpendicular lines. Equation of a line: point-slope and slope intercept form. Comparison of parallel and perpendicular lines.
DAY 2	Part 2: Using Coordinates to Find Slope	Examples 3-4; Questions 5-7	<u>On Your Own</u> Questions 3-8, 25-27 For Extension: 28-30, 32, 33 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 93			
DAY 3	Part 3: Graphing a Line Given Its Slope and a Point	Example 5; Question 8 <u>On Your Own</u> Questions 17-20	<u>On Your Own</u> Questions 9-16 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 94			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 5-2: Rates of Change						
NYS Core: 5F						
DAY 4	Part 1: Finding Rate of Change	Example 1; Questions 1-3	<u>On Your Own</u> Questions 1-6, 7, 12-17 For Extension: 18, 22, 24 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 95	5: Measurement 5F: Apply proportions to scale drawings and direct variation.	<ul style="list-style-type: none"> • Ratio. • Proportion. • Scale drawings. • Percent. • Direct variation. 	June 1999, #26
	DAY 5	Part 2: Using a Table Part 3: Linear Functions	Example 2, 3; Question 4-7			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 5-3: Direct Variation						
NYS Core: 5A, 5F						
DAY 6	Part 1: Direct Variation	Example 1; Questions 1-4	<u>On Your Own</u> Questions 2-7, 25-32 For Extension: 1, 8, 33 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 98	5: Measurement 5A: Apply formulas to find measures such as length, area, volume, weight, time, and angle in real-world contexts. 5F: Apply proportions to scale drawings and direct variation.	<ul style="list-style-type: none"> • Areas of polygons and circles. • Volume of solids. • Direct variation. 	August 2000, #5
DAY 7	Part 2: Using the Constant of Variation to Write Equations	Examples 2-3; Questions 5-6	<u>On Your Own</u> Questions 9-12, 22 For Extension: 19-21, 23 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 99			
DAY 8	Part 3: Using Proportions	Example 4; Questions 7-8	<u>On Your Own</u> Questions 13-17 For Extension: 18, 24 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 100			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 5-4: Slope Intercept Form						
NYS Core: 5G, 7A, 7C						
DAY 9	Part 1: Defining Slope-Intercept Form	Work Together; Example 1; Questions 1-8, 11, 12	<u>On Your Own</u> Questions 1-6, 12-20 For Extension: 10, 11 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 101	5: Measurement 5G: Relate absolute value, distance between two points, and the slope of a line to the coordinate plane. 7: Patterns/Functions 7A: Represent and analyze functions, using verbal descriptions, tables, equations, and graphs. 7C: Translate among the verbal descriptions, tables, equations, and graphic forms of functions.	<ul style="list-style-type: none"> Equation of a line: point-slope and slope intercept form. Graphs of linear relations: slope and intercept. Graphic solution of systems of linear equations, inequalities, and quadratic linear pair. Translate linear and quadratic functions, systems of equations, inequalities, and quadratic linear pairs between representations that are verbal descriptions, tables, equations, and graphs. 	August 1999, #19 January 2000, #29 January 2002, #23 June 2002, #5
	DAY 10	Part 2: Writing Equations	Examples 2, 3, 4; Questions 9, 10, 13, 14			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 5-5: Writing the Equation of a Line						
NYS Core: 4A, 5G, 7B, 7D						
DAY 11	Writing the Equation of a Line	Examples 1-3; Questions 1-4	<u>On Your Own</u> Questions 1-12, 14-22, 24-28 For Extension: 13, 23, 29, 30 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 103	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs. 5: Measurement 5G: Relate absolute value, distance between two points, and the slope of a line to the coordinate plane. 7: Patterns/Functions 7B: Apply linear and quadratic functions in the solution of problems. 7D: Model real-world situations with the appropriate function.	<ul style="list-style-type: none"> • Use of variables/ Algebraic representations. • Formulas and literal equations. • Equation of a line: point-slope and slope intercept form. • Graphic and algebraic solutions of linear and quadratic functions in the solution of problems. • Determine and model real-life situations with appropriate functions. 	August 1999, #29 August 2001, #30, #35 June 2002, #25 <u>Real World Context</u> August 1999, #35 June 2000, #25 June 2002, #32

PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 5-8: Parallel and Perpendicular Lines						
NYS Core: 5G, 7B						
DAY 12	Part 1: Parallel Lines	Work Together; Example 1; Questions 1-9	<u>On Your Own</u> Questions 1-12, 25-30 For Extension: 32, 33, 37-40 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 108	5: Measurement 5G: Relate absolute value, distance between two points, and the slope of a line to the coordinate plane. 7: Patterns/Functions 7B: Apply linear and quadratic functions in the solution of problems.	<ul style="list-style-type: none"> Equation of a line: point-slope and slope intercept form. Comparison of parallel and perpendicular lines. Graphic and algebraic solutions of linear and quadratic functions in the solution of problems. 	January 2000, #9 June 2001, #5
DAY 13	Part 2: Perpendicular Lines	Example 2; Questions 10-14	<u>On Your Own</u> Questions 13-24, 41-50 For Extension: 31, 34-36, 51-53 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 109			

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PACING	NEW YORK MATH A	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM
	Chapter / Lesson / Unit			Key Ideas / Performance Indicators	Includes	Math A Exam Month / Year / Problem Link: www.jmap.org
SEMESTER B	CHAPTER 6: SYSTEMS OF EQUATIONS AND INEQUALITIES					
	Lesson 6-1: Solving Systems by Graphing					
	NYS Core: 4E, 7A, 7E					
DAY 14	Part 1: Solving Systems with One Solution	Examples 1-2; Questions 1-4	<u>On Your Own</u> Questions 1-5, 7-10 For Extension: 6, 11, 12 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 111	4: Modeling/Multiple Representation 4E: Model real-world problems with systems of equations and inequalities. 7: Patterns/Functions 7A: Represent and analyze functions, using verbal descriptions, tables, equations, and graphs. 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Systems of linear equations and inequalities. Graphic solution of systems of linear equations, inequalities, and quadratic-linear pairs. Algebraic solutions of systems of linear equations, inequalities, and quadratic linear pair by substitution and by addition-subtraction method. 	August 1999, #35 June 2000, #7
DAY 15	Part 2: Solving Special Types of Systems	Example 3; Questions 5-10; Work Together	<u>On Your Own</u> Questions 13-24, 29-36, 41 For Extension: 25-28, 37-40, 42-46 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 112			

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				Key Ideas / Performance Indicators	Includes	
Lesson 6-2: Solving Systems Using Substitution						
NYS Core: 4E, 7A, 7E						
DAY 16	Part 1: Solving Systems with One Solution	Work Together; Examples 1-2; Questions 1-9	<u>On Your Own</u> Questions 9, 11-22, 29-33, 39 For Extension: 10, 28, 38 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 113	4: Modeling/Multiple Representation 4E: Model real-world problems with systems of equations and inequalities. 7: Patterns/Functions 7A: Represent and analyze functions, using verbal descriptions, tables, equations, and graphs. 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Systems of linear equations and inequalities. Solve systems of linear equations, inequalities, and quadratic-linear pair. 	
	DAY 17	Part 2: Solving Special Types of Systems	Example 3; Questions 10-14			

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				Key Ideas / Performance Indicators	Includes	
Lesson 6-3: Solving Systems Using Elimination						
NYS Core: 4E, 7A, 7E						
DAY 18	Part 1: Adding or Subtracting Equations	Examples 1-2; Questions 1-3	<u>On Your Own</u> Questions 1-5, 10-17, 30-33 For Extension: 26, 27, 38 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 115	4: Modeling/Multiple Representation 4E: Model real-world problems with systems of equations and inequalities. 7: Patterns/Functions 7A: Represent and analyze functions, using verbal descriptions, tables, equations, and graphs. 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Systems of linear equations and inequalities. Algebraic solutions of systems of linear equations, inequalities, and quadratic linear pair by substitution and by addition-subtraction method. Solve systems of linear equations, inequalities, and quadratic linear pair. 	August 2000, #13
DAY 19	Part 2: Multiplying First	Example 3; Questions 4-9; Work Together	<u>On Your Own</u> Questions 6-8, 18-25, 34-37 For Extension: 9, 28, 29, 39 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 116			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 6-4: Writing Systems						
NYS Core: 4E, 7E						
DAY 20-21	Writing Systems	Examples 1-2; Questions 1-4	<u>On Your Own</u> Questions 5-15, 19-24 For Extension: 1-4, 16-18, 25, 26 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 117	4: Modeling/Multiple Representation 4E: Model real-world problems with systems of equations and inequalities. 7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Systems of linear equations and inequalities. Solve systems of linear equations, inequalities, and quadratic linear pair. 	August 1999, #16 January 2000, #33 June 2000, #31 January 2001, #34 June 2001, #33 January 2002, #28, #32 August 2002, #33
Lesson 6-5: Linear Inequalities						
NYS Core: 4E, 7E						
DAY 22-23	Linear Inequalities	Work Together; Examples 1-3; Questions 1-12	<u>On Your Own</u> Questions 1-6, 8-24, 27-30, 36-39 For Extension: 7, 25, 26, 31-35, 40 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 118	4: Modeling/Multiple Representation 4E: Model real-world problems with systems of equations and inequalities. 7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Systems of linear equations and inequalities. Solve systems of linear equations, inequalities, and quadratic linear pair. 	August 2002, #20

PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 6-6: Systems of Linear Inequalities						
NYS Core: 4E, 7E						
DAY 24-25	Systems of Linear Inequalities	Work Together; Examples 1-2; Questions 1-15	<u>On Your Own</u> Questions 1-3, 5-16, 23-27 For Extension: 4, 17-22 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 119	4: Modeling/Multiple Representation 4E: Model real-world problems with systems of equations and inequalities. 7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Systems of linear equations and inequalities. Solve systems of linear equations, inequalities, and quadratic linear pair. 	January 2002, #34
Lesson 6-8: Systems with Nonlinear Equations						
NYS Core: 4E, 7E						
DAY 26	Linear Quadratic Systems	Question 1; Examples 2-3; Question 4	<u>On Your Own</u> Questions 1, 6, 11, 19, 23, 25, 31 For Extension: 33 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 121	4: Modeling/Multiple Representation 4E: Model real-world problems with systems of equations and inequalities. 7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Systems of linear equations and inequalities. Solve systems of linear equations, inequalities, and quadratic linear pair. 	June 1999, #35 January 2000, #29 June 2000, #18, #29 June 2001, #29 August 2001, #35 June 2002, #35 August 2002, #34

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PACING	NEW YORK MATH A	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM
	Chapter / Lesson / Unit			Key Ideas / Performance Indicators	Includes	Math A Exam Month / Year / Problem Link: www.jmap.org
SEMESTER B	CHAPTER 7: QUADRATIC EQUATIONS AND FUNCTIONS					
	Lesson 7-1: Exploring Quadratic Functions					
	NYS Core: 7A, 7C					
DAY 27-28	Part 1: Quadratic Functions	Work Together; Questions 1-5	<u>On Your Own</u> Questions 1-4, 17-20 For Extension: 21-24, 29-33 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 122	7: Patterns/Functions 7A: Represent and analyze functions, using verbal descriptions, tables, equations, and graphs. 7C: Translate among the verbal descriptions, tables, equations, and graphic forms of functions	<ul style="list-style-type: none"> Techniques for solving factorable quadratic equations. Graphs of conics: circle and parabola. Translate linear and quadratic functions, systems of equations, inequalities and quadratic linear pairs between representations that are verbal descriptions, tables, equations. 	
DAY 29-30	Part 2: The Role of a in $ax^2 + bx + c = 0$	Examples 1-2; Questions 6-11	<u>On Your Own</u> Questions 5-16, 25-28 For Extension: 34-39 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 123			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 7-2: Graphing Simple Quadratic Functions						
NYS Core: 7A, 7C						
DAY 31-32	Graphing Simple Quadratic Functions	Work Together; Examples 1-2; Questions 1-8	<u>On Your Own</u> Questions 2-17, 21-33 For Extension: 1, 18-20, 34 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 124	7: Patterns/Functions 7A: Represent and analyze functions, using verbal descriptions, tables, equations, and graphs. 7C: Translate among the verbal descriptions, tables, equations, and graphic forms of functions	<ul style="list-style-type: none"> Graphs of conics: circle and parabola. Translate linear and quadratic functions, systems of equations, inequalities and quadratic linear pairs between representations that are verbal descriptions, tables, equations. 	August 1999, #33 January 2000, #31 January 2001, #13
Lesson 7-3: Graphing Quadratic Functions						
NYS Core: 7A, 7C						
DAY 33	Part 1: Graphing $y = ax^2+bx+c$	Work Together; Examples 1-2; Question 1-3	<u>On Your Own</u> Questions 1-27 For Extension: 28-30 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 125	7: Patterns/Functions 7A: Represent and analyze functions, using verbal descriptions, tables, equations, and graphs. 7C: Translate among the verbal descriptions, tables, equations, and graphic forms of functions.	<ul style="list-style-type: none"> Graphs of conics: circle and parabola. Translate linear and quadratic functions, systems of equations, inequalities and quadratic linear pairs between representations that are verbal descriptions, tables, equations. 	August 2000, #17
DAY 34	Part 2: Quadratic Inequalities	Example 3; Questions 4-6	<u>On Your Own</u> Questions 31-39 For Extension: 40-42 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 126			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 7-4: Square Roots NYS Core: 2A, 2B, 2C						
DAY 35	Part 1: Finding Square Roots	Example 1; Questions 1-2	<u>On Your Own</u> Questions 1-16, 37, 52-59 For Extension: 35, 36, 50, 51 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 127	2: Number and Numerations 2A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs. 2B: Recognize the order of real numbers. 2C: Properties of real numbers including closure, commutative, associative, and distributive properties, and inverse and identity elements.	<ul style="list-style-type: none"> Real numbers including irrational numbers such as non-repeating decimals, irrational roots and pi. Rational approximation of irrational numbers. Properties of real numbers including closure, commutative, associative and distributive properties, and inverse and identity elements. 	June 1999, #23 January 2000, #1, #2 June 2001, #20 August 2001, #2 January 2002, #19, #21 June 2002, #11 August 2002, #8
DAY 36	Part 2: Estimating and Using Square Roots	Examples 2-4; Questions 3-5	<u>On Your Own</u> Questions 17-20, 23-24, 38-49 For Extension: 21, 22, 60-69 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 128			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 7-5: Solving Quadratic Equations <i>NYS Core: 7A, 7B, 7C</i>						
DAY 37	Part 1: Using Square Roots to Solve Equations	Work Together; Examples 1-2; Questions 1-13	<u>On Your Own</u> Questions 13-19, 37-42 For Extension: 20, 21, 32-35 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 129	7: Patterns/Functions 7A: Represent and analyze functions, using verbal descriptions, tables, equations, and graphs. 7B: Apply linear and quadratic functions in the solution of problems. 7C: Translate among the verbal descriptions, tables, equations, and graphic forms of functions.	<ul style="list-style-type: none"> Techniques for solving factorable quadratic equations. Graphic and algebraic solutions of linear and quadratic functions in the solution of problems. Translate linear and quadratic functions, systems of equations, inequalities and quadratic linear pairs between representations that are verbal descriptions, tables, equations, or graphs. 	June 1999, #9 August 1999, #26 August 2000, #12 January 2001, #31 June 2001, #4 August 2001, #18 January 2002, #13 June 2002, #29 <u>Verbal problems leading to quadratics</u> June 2000, #35 August 2000, #35 January 2002, #33 August 2002, #32, #34
DAY 38	Part 2: Finding the Number of Solutions	Example 3; Questions 14-15	<u>On Your Own</u> Questions 1-12, 22-29 For Extension: 30, 31, 36 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 130			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
SEMESTER B	CHAPTER 8: EXPONENTS AND EXPONENTIAL FUNCTIONS					
	Lesson 8-4: Zero and Negative Exponents NYS Core: 3B					
DAY 39	Part 1: Using Zero and Negative Integers as Exponents	Work Together; Examples 1-3; Questions 1-10	<u>On Your Own</u> Questions 1-18, 20-37, 52-65 For Extension: 19, 38-43 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 139	3: Operations 3B: Use integral exponents on integers and algebraic expressions.	<ul style="list-style-type: none"> Powers: positive, zero, and negative exponents. 	June 2000, #20 June 2001, #13
Lesson 8-5: Scientific Notation NYS Core: 3A, 3B						
DAY 40	Part 1: Writing Numbers in Scientific Notation	Example 1; Questions 1-6	<u>On Your Own</u> Questions 1-4, 10-30 For Extension: 31, 47-53 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 141	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 3B: Use integral exponents on integers and algebraic expressions.	<ul style="list-style-type: none"> Scientific notation. Powers: positive, zero, and negative exponents. 	August 1999, #4 January 2000, #18 June 2000, #29 August 2000, #4 January 2001, #11 January 2002, #6 June 2002, #7 August 2002, #10
DAY 41	Part 2: Calculating with Scientific Notation	Examples 2-3; Questions 7-12	<u>On Your Own</u> Questions 5-9, 32-36, 37-42 For Extension: 43-46 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 142			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 8-6: A Multiplication Property of Exponents <i>NYS Core: 3A, 3B</i>						
DAY 42	Part 1: Multiplying Powers	Work Together; Example 1; Questions 1-9	<u>On Your Own</u> Questions 1-11, 20-47 For Extension: 19, 48-50 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 143	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 3B: Use integral exponents on integers and algebraic expressions.	<ul style="list-style-type: none"> Multiplication of polynomials: powers, products of monomials and binomials... Powers: positive, zero, and negative exponents. 	August 1999, #6 January 2000, #8 June 2000, #15 August 2000, #1 January 2002, #5
DAY 43	Part 2: Working with Scientific Notation	Examples 2-3; Questions 10-12	<u>On Your Own</u> Questions 12-17, 55-57 For Extension: 18, 51-54, 58, 59 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 144			

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PACING	NEW YORK MATH A	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM
	Chapter / Lesson / Unit			Key Ideas / Performance Indicators	Includes	Math A Exam Month / Year / Problem Link: www.jmap.org
Lesson 8-7: More Multiplication Properties of Exponents						
NYS Core: 3A, 3B						
DAY 44	Part 1: Raising a Power to a Power	Example 1; Questions 1-6	<u>On Your Own</u> Questions 1-28, 41-46 For Extension: 29 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 145	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 3B: Use integral exponents on integers and algebraic expressions.	<ul style="list-style-type: none"> Multiplication of polynomials: powers, products of monomials and binomials... Powers: positive, zero, and negative exponents. 	
DAY 45	Part 2: Raising a Product to a Power	Examples 2-3; Questions 7-10	<u>On Your Own</u> Questions 30-36, 52-55 For Extension: 37-40, 51 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 146			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 8-8: Division Properties of Exponents <i>NYS Core: 3A, 3B</i>						
DAY 46	Part 1: Dividing Powers with the Same Base	Example 1-2; Questions 1-5	<u>On Your Own</u> Questions 1-12, 19-23 For Extension: 13-18, 24-26 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 147	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 3B: Use integral exponents on integers and algebraic expressions.	<ul style="list-style-type: none"> • Division of polynomials by monomials. • Powers: positive, zero, and negative exponents. 	June 2000, #5 January 2001, #9 June 2001, #2
DAY 47	Part 2: Raising a Quotient to a Power	Example 3; Questions 6-11	<u>On Your Own</u> Questions 27-50 For Extension: 51-58 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 148			

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PACING	NEW YORK MATH A	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM
	Chapter / Lesson / Unit			Key Ideas / Performance Indicators	Includes	Math A Exam Month / Year / Problem Link: www.jmap.org
SEMESTER B	CHAPTER 9: RIGHT TRIANGLES AND RADICAL EXPRESSIONS					
	Lesson 9-1: The Pythagorean Theorem					
	NYS Core: 4A, 5A					
DAY 48	Part 1: Solving Equations Using the Pythagorean Theorem	Work Together; Examples 1-2; Questions 1-9	<u>On Your Own</u> Questions 1-12, 14-17 For Extension: 13, 18-20 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 149	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs. 5: Measurement 5A: Apply formulas to find measures such as length, area, volume, weight, time, and angle in real-world context.	<ul style="list-style-type: none"> Pythagorean Theorem. 	June 2000, #9 January 2001, #19 January 2002, #2 June 2002, #31b
DAY 49	Part 2: Using the Converse	Example 3; Question 10	<u>On Your Own</u> Questions 21-36 For Extension: 37-39 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 150			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 9-2: The Distance Formula NYS Core: 4A, 5B, 5G						
DAY 50-51	Part 1: Find the Distance	Work Together; Examples 1-2; Questions 1-7	<u>On Your Own</u> Questions 1-15 For Extension: 16, 17, 31-34 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 151	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs. 5: Measurement 5B: Choose and apply appropriate units and tools in measurement situations. 5G: Relate absolute value, distance between two points, and the slope of a line to the coordinate plane.	<ul style="list-style-type: none"> • Direct and indirect measure. • Absolute value and the length of a line segment. 	
DAY 52	Part 2: Using the Midpoint Formula	Example 3; Questions 8-9	<u>On Your Own</u> Questions 18-29 For Extension: 30, 35, 36 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 152			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 9-3: Trigonometric Ratios						
NYS Core: 5B, 5E, 5I, 6A						
DAY 53	Part 1: Finding Trigonometric Ratios	Work Together; Examples 1-2; Questions 1-5	<u>On Your Own</u> Questions 1-18 For Extension: 23-25 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 153	5: Measurement 5B: Choose and apply appropriate units and tools in measurement situations. 5E: Apply proportions to scale drawings and direct variations. 5I: Use geometric relationships in relevant measurement problems involving geometric concepts.	<ul style="list-style-type: none"> • Direct and indirect measure. • Right triangle trigonometry. • Similar figures. 	
DAY 54	Part 2: Solving Problems Using Trigonometric Ratios	Example 3; Question 6	<u>On Your Own</u> Questions 19-22 For Extension: 26-28 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 154	6: Uncertainty 6A: Judge the reasonableness of results obtained from applications in algebra, geometry, trigonometry, probability, and statistics.		

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 9-4: Simplifying Radicals						
NYS Core: 2A, 2B, 3A						
DAY 55	Part 1: Multiplication with Radicals	Examples 1-3; Questions 1-3	<u>On Your Own</u> Questions 1-20, 40-47 For Extension: 21-24, 56 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 155	2: Number and Numeration 2A: Understand and use irrational numbers. 2B: Recognize the order of real numbers. 3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions.	<ul style="list-style-type: none"> Real numbers including irrational numbers, such as non-repeating decimals, irrational roots, and pi. Rational approximations of irrational numbers. Operations with radicals: simplification, multiplication and division, and addition and subtraction. 	August 1999, #2 August 2001, #20
	DAY 56	Part 2: Division with Radicals	Examples 4-6; Questions 4-6			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 9-5: Adding and Subtracting Radicals						
NYS Core: 2A, 2B, 3A						
DAY 57	Part 1: Simplifying Sums and Differences	Work Together; Examples 1-2; Questions 1-6	<u>On Your Own</u> Questions 1-15, 17-25 For Extension: 16, 39-41 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 157	2: Number and Numeration 2A: Understand and use irrational numbers. 2B: Recognize the order of real numbers. 3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions.	<ul style="list-style-type: none"> Real numbers including irrational numbers, such as non-repeating decimals, irrational roots, and pi. Rational approximations of irrational numbers. Operations with radicals: simplification, multiplication and division, and addition and subtraction. 	June 1999, #20 August 2000, #16 January 2001, #3 June 2002, #18
	DAY 58-59	Part 2: Simplifying Products, Sums, and Differences	Examples 3-4; Questions 7-9			

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PACING	NEW YORK MATH A	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM
	Chapter / Lesson / Unit			Key Ideas / Performance Indicators	Includes	Math A Exam Month / Year / Problem Link: www.jmap.org
SEMESTER C BEGINS	CHAPTER 10: POLYNOMIALS Lesson 10-1: Adding and Subtracting Polynomials NYS Core: 3A					
DAY 1	Review <i>Combining Like Terms</i> with students <u>Resource Pro CD</u> Chapter Support Files; Chapter 3; Lesson 3-3: Reteaching worksheet 3-3					
DAY 2	Part 1: Describing Polynomials	Work Together; Example 1; Questions 1-5	<u>On Your Own</u> Questions 1-13 For Extension: 23, 24, 29, 30 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 163	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions.	<ul style="list-style-type: none"> Addition and subtraction of polynomials: combining like terms and fractions with like denominators. 	June 1999, #4 June 2000, #19 August 2000, #20 January 2001, #8, #19 August 2001, #23 January 2002, #7, #24 August 2002, #9
DAY 3	Part 2: Adding Polynomials	Example 2; Questions 6-7	<u>On Your Own</u> Questions 14-15, 25-28 For Extension: 31-33 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 164			
DAY 4	Part 3: Subtracting Polynomials	Example 3; Questions 8-9	<u>On Your Own</u> Questions 16-21, 34-39 For Extension: 22, 40 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 165			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 10-2: Multiplying and Factoring <i>NYS Core: 3A, 3D</i>						
DAY 5	Part 1: Multiplying by a Monomial	Examples 1; Questions 1-3	<u>On Your Own</u> Questions 1-5, 9-20 For Extension: 33-51 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 166	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 3D: Use field properties to justify mathematical procedures.	<ul style="list-style-type: none"> • Prime factorization • Factoring: common monomials, binomial factors of trinomials. • Distributive field property as related to factoring. 	June 1999, #24
	DAY 6-7	Part 2: Factoring Out a Monomial	Example 2-5; Question 4-8 <u>On Your Own</u> Questions 6-8, 21-32, 36-47 For Extension: 34, 35, 48-50 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 167			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 10-3: Multiplying Polynomials NYS Core: 3A						
DAY 8	Part 1: Multiplying Two Binomials	Example 1; Questions 1-4	<u>On Your Own</u> Questions 1-6 For Extension: 7-10 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 168	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions.	<ul style="list-style-type: none"> Multiplication of polynomials: powers, products of monomials and binomials, equivalent fractions with unlike denominators, and multiplication of fractions. 	
DAY 9	Part 2: Multiplying Using FOIL	Examples 2-3; Questions 5-8	<u>On Your Own</u> Questions 23-30 For Extension: 20-22, 31, 32 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 169			
DAY 10	Part 3: Multiplying a Trinomial and a Binomial	Example 4; Question 9	<u>On Your Own</u> Questions 11-19 For Extension: 33-36 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 170			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 10-4: Factoring Trinomials <i>NYS Core: 3A, 3D</i>						
DAY 11	Part 1: Using Tiles	Work Together; Example 1; Questions 1-5	<u>On Your Own</u> Questions 1-15 For Extension: 22-23 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 171	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 3D: Use field properties to justify mathematical procedures.	<ul style="list-style-type: none"> Factoring: common monomials, binomial factors of trinomials. Distributive field property as related to factoring. 	January 2000, #4 June 2002, #6
DAY 12	Part 2: Testing Possible Factors	Examples 2-3; Questions 6-7	<u>On Your Own</u> Questions 24-39 For Extension: 16-21 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 172			
DAY 13	Part 3: Factoring ax^2+bx+c	Example 4; Question 8	<u>On Your Own</u> Questions 43-54 For Extension: 40-42 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 173			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 10-5: Factoring Special Cases NYS Core: 3A, 3D						
DAY 14	Part 1: Factoring a Difference of Two Squares	Work Together; Examples 1-2; Questions 1-7	<u>On Your Own</u> Questions 25-32 For Extension: 1-4, 37, 38 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 174	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions. 3D: Use field properties to justify mathematical procedures.	<ul style="list-style-type: none"> Difference of two squares. Distributive field property as related to factoring. 	January 2000, #5 January 2002, #12 <u>More than 1 factoring</u> June 2001, #9 August 2001, #3
	Part 2: Factoring a Perfect Square Trinomial	Examples 3-5; Questions 8-12	<u>On Your Own</u> Questions 5-20 For Extension: 21-24, 33-36 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 175			
DAY 15-16						

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				Key Ideas / Performance Indicators	Includes	
Lesson 10-6: Solving Equations by Factoring <i>NYS Core: 3D, 7A, 7E</i>						
DAY 17-18	Solving Equations by Factoring	Examples 1-3; Questions 1-4	<u>On Your Own</u> Questions 1-15, 18-29, 35-40 For Extension: 16, 17, 30-34, 41-45 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 176	3: Operations 3D: Use field properties to justify mathematical procedures. 7: Patterns/Functions 7A: Represent and analyze functions, using verbal descriptions, tables, equations, and graphs. 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Distributive field property as related to factoring. Techniques for solving factorable quadratic equations. Solve factorable quadratic equations. 	June 1999, #9 August 1999 #26 August 2000, #12 June 2001, #4 August 2001, #18 January 2002, #13 June 2002, #29
Lesson 10-7: Choosing an Appropriate Method for Solving <i>NYS Core: 4A</i>						
DAY 19-20	Choosing an Appropriate Method for Solving	Examples 1-4; Questions 1-8	<u>On Your Own</u> Questions 1-10, 13-28 For Extension: 11, 12, 29-30 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 177	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Use of variables/ Algebraic representations. Formulas and literal equations. 	

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PACING	NEW YORK MATH A	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM
	Chapter / Lesson / Unit			Key Ideas / Performance Indicators	Includes	Math A Exam Month / Year / Problem Link: www.jmap.org
SEMESTER C	CHAPTER 11: RATIONAL EXPRESSIONS					
	Lesson 11-3: Rational Expressions					
	NYS Core: 3A					
DAY 21-22	Part 1: Simplifying Rational Expressions	Work Together; Examples 1, 2; Questions 1-8	<u>On Your Own</u> Questions 1, 3, 6-8, 12, 15 For Extension: 17, 18 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 182	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions.	<ul style="list-style-type: none"> Simplification of fractions. Division of fractions. 	June 1999, #24 August 2000, #22 August 2001, #19 August 2002, #13, #28
DAY 23-24	Part 2: Multiplying and Dividing Rational Expressions	Examples 3, 4; Questions 9-13	<u>On Your Own</u> Questions 2, 4, 9-11, 13, 16 For Extension: 19, 34 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 183			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 11-4: Operations with Rational Expressions						
NYS Core: 3A						
DAY 25-26	Operations with Rational Expressions	Work Together; Examples 1-4; Questions 1-8	<u>On Your Own</u> Questions 1-36 For Extension: 37-51 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 184	3: Operations 3A: Use addition, subtraction, multiplication, division, and exponentiation with real numbers and algebraic expressions.	<ul style="list-style-type: none"> Simplification of algebraic expressions. Simplification of fractions. Division of fractions. 	June 1999, #6 August 1999, #11 January 2000, #16 August 2002, #7
Lesson 11-5: Solving Rational Equations						
NYS Core: 7E						
DAY 27-28	Solving Rational Equations	Examples 1-3; Questions 1-3	<u>On Your Own</u> Questions 2-15 For Extension: 1, 16-19, 30-31 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 185	7: Patterns/Functions 7E: Apply axiomatic structure to algebra.	<ul style="list-style-type: none"> Solving linear equations with integral, fraction, or decimal coefficients. 	

PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 11-6: Counting Outcomes and Permutations						
NYS Core: 4A, 6D						
DAY 29	Part 1: Using the Multiplication Counting Principle	Work Together; Example 1; Questions 1-5	<u>On Your Own</u> Questions 1-5, 26, 27 For Extension: 18 -28 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 186	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> • Sample spaces: list of ordered pairs of n-tuples, tree diagrams. • Theoretical versus empirical probability. • Factorial notation. • Permutations of nP_n and nPr. • Combinations of nC_n and nCr. 	<u>Counting Principle</u> August 1999, #23 August 2001, #11, #26 January 2002, #18 August 2002, #4 <u>Permutations</u> August 1999, #17 January 2000, #13 June 2000 #23, #16 August 2000, #34 June 2001, #25 August 2001, #7
DAY 30	Part 2: Finding Permutations	Example 2-3 Questions 6-9	<u>On Your Own</u> Questions 6-17, 22-25 For Extension: 19-21 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 187	6: Uncertainty 6A: Judge the reasonableness of results obtained from applications in algebra, geometry, trigonometry, probability, and statistics. 6D: Determine probabilities, using permutations and combinations.		
Lesson 11-7: Combinations						
NYS Core: 6A, 6D						
DAY 31-32	Combinations	Examples 1-2; Questions 1-4	<u>On Your Own</u> Questions 1-15, 20-28, 30-33 For Extension: 16-19, 29, 34 <u>Resource Pro CD</u> Two Year Algebra Handbook, p. 188	6: Uncertainty 6A: Judge the reasonableness of results obtained from applications in algebra, geometry, trigonometry, probability, and statistics. 6D: Determine probabilities, using permutations and combinations.	<ul style="list-style-type: none"> • Theoretical versus empirical probability. • Factorial notation. • Permutations of nP_n and nPr. • Combinations of nC_n and nCr. 	June 1999, #7 January 2000, #34 January 2001, #14 June 2001, #14 August 2002, #29

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PACING	NEW YORK MATH A	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM
	Chapter / Lesson / Unit			Key Ideas / Performance Indicators	Includes	Math A Exam Month / Year / Problem Link: www.jmap.org
SEMESTER C	CHAPTER 1: TOOLS OF GEOMETRY					
	Lesson 1-1: Using Patterns and Inductive Reasoning NYS Core: 4A, 6A					
DAY 33	Using Patterns and Inductive Reasoning	Work Together; Questions 1–7; Examples 1-3	<u>On Your Own</u> Questions 1-13, 16, 17, 20, 25, 28, 30, 31, 33 For Extension: 35, 37-40	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs. 6: Uncertainty 6A: Judge the reasonableness of results obtained from applications in algebra, geometry, trigonometry, probability, and statistics.		

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 1-2: Points, Lines and Planes						
NYS Core: 4A						
DAY 34	Part 1: Basic Terms	Work Together; Questions 1–4, 6–13	<u>On Your Own</u> Questions 1-10, 13-21, 26, 31, 36-38, 43-46 For Extension: 40, 41, 48	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Undefined terms: point, line, and plane. Parallel and intersecting lines and perpendicular lines. 	
DAY 35	Part 2: Basic Postulates	Questions 14–15; Example	<u>On Your Own</u> Questions 11, 12, 22-25, 27, 29, 30, 32-35, 39, 47 For Extension: 28, 42			
Lesson 1-3: Segments, Rays, Parallel Lines and Planes						
NYS Core: 4A						
DAY 36	Segments, Rays, Parallel Lines and Planes	Questions 1–7; Example; Work Together 10-12	<u>On Your Own</u> Questions 1-34, 37, 39 For Extension: 35, 36, 38	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Undefined terms: point, line, and plane. Parallel and intersecting lines and perpendicular lines. 	

PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
NY 2: Parallel Lines and Related Angles						
NYS Core: 4A						
DAY 37-38	Angles Formed By Intersecting Lines	Questions 1-3; Work Together; Question 4	<u>On Your Own</u> Questions 1-3, 19-27 For Extension: 14-16	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Parallel and intersecting lines and perpendicular lines. Angle: degree measure, right, acute, obtuse, straight, supplementary, complementary, vertical, alternate interior and exteriors, and corresponding angles. 	June 2001, #22, #26 August 2002, #5
	Angles Formed by Parallel Lines	Think and Discuss; Examples 2-3	<u>On Your Own</u> Questions 4-13, 17, 18, 28-38 For Extension: 39-41			
Lesson 1-4: Measuring Angles and Segments						
NYS Core: 4A, 5A, 5B						
DAY 39	Part 1: Measuring Segments	Work Together; Questions 1–5, 7, 8; Examples 1-2	<u>On Your Own</u> Questions 1-14, 24 For Extension: 27, 28	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs. 5: Measurement 5A: Apply formulas to find measures such as length, area, volume, weight, time and angle in real-world contexts. 5B: Choose and apply appropriate units and tools in measurement situations.	<ul style="list-style-type: none"> Angles: degree measure, right, acute, obtuse, straight, supplementary, complementary, vertical, alternate interior and exteriors, and corresponding. Perimeter of polygons and circumference of circles. Converting to equivalent measurements within metric and English measurement systems. 	
DAY 40	Part 2: Measuring Angles	Questions: 10–17	<u>On Your Own</u> Questions 15-23, 32-36 For Extension: 25, 26, 29-31			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 1-5: Good Definitions <i>NYS Core: 1A</i>						
DAY 41	Part 1: Properties of Good Definitions	Work Together; Questions 1-4; Example 1	<u>On Your Own</u> Questions 1-8, 29-40, 46, 53, 54 For Extension: 42, 44	1: Mathematical Reasoning 1A: Construct valid arguments.	<ul style="list-style-type: none"> Truth-value of simple sentences (closed sentences, open sentences with replacement set and solution set, negations). 	
DAY 42	Part 2: Bisectors	Questions 6–9; Example 2 <u>Resource Pro CD</u> , Vol. 2 Chapter Support Files; Chap. 1; Lesson 1-5: Reteaching worksheet 1-5	<u>On Your Own</u> Questions 9-28, 45, 47-52 For Extension: 41, 43, 55			

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				Key Ideas / Performance Indicators	Includes	
Lesson 1-6: Basic Constructions						
NYS Core: 4B, 5B						
DAY 43	Part 1: Constructing Congruent Segments and Angles	Work Together; Questions 1–6; Constructions 1 and 2; Example	<u>On Your Own</u> Questions 1, 4-11 For Extension: 18	4: Modeling/Multiple Representations 4B: Justify the procedures for basic geometric constructions. 5: Measurement 5B: Choose and apply appropriate units and tools in measurement situations.	<ul style="list-style-type: none"> Basic constructions: copy line and angle; bisect line segment and angle, perpendicular and parallel lines. 	June 2000, #22 January 2002, #25
DAY 44	Part 2: Constructing a Perpendicular Bisector and Angle Bisectors	Constructions 3 and 4; Question 8	<u>On Your Own</u> Questions 2, 3, 12–17 For Extension: 19			
NY 3: Constructing Parallel and Perpendicular Lines						
NYS Core: 4B						
DAY 45	Constructing Parallel Lines and Perpendicular Lines	Question 1; Construction 5; Examples 1-2; Construction 6 and 7; Question 5	<u>On Your Own</u> Questions 1, 2, 8-10, 11-14 For Extension: 3, 18-20	4: Modeling/Multiple Representations 4B: Justify the procedures for basic geometric constructions.	<ul style="list-style-type: none"> Basic constructions: copy line and angle; bisect line segment and angle, perpendicular and parallel lines. 	

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 1-7: Using Deductive Reasoning						
NYS Core: 1A, 2C, 6A						
DAY 46	Part 1: Connecting Algebra and Geometry	Question 1; Example 1	<u>On Your Own</u> Questions 1-10, 29-31 For Extension: 34-38	1: Mathematical Reasoning 1A: Construct valid arguments. 2: Number and Numeration 2C: Apply the properties of real numbers to various subsets of numbers.	<ul style="list-style-type: none"> Truth-value of compound sentences (conjunction, disjunction, conditional, related conditionals such as converse, inverse, and contrapositive, and biconditional). Properties of real numbers including closure, commutative, associative, and distributive properties, and inverse and identity elements. 	<u>Angle relationships</u> January 2001, #28 January 2002, #29
DAY 47	Part 2: Angle Pairs	Work Together; Questions 3–6; Example 2-3	<u>On Your Own</u> Questions 11-28 For Extension: 32, 33	6: Uncertainty 6A: Judge the reasonableness of results obtained from applications in algebra, geometry, trigonometry, probability, and statistics.		
Lesson 1-8: The Coordinate Plane						
NYS Core: 5G						
DAY 48	Distance Formula	Work Together; Questions 1–6; Example 1	<u>On Your Own</u> Questions 1-15, 25, 27, 29a, 30a, 31a For Extension: 32, 33	5: Measurement 5G: Relate absolute value, distance between two points, and the slope of a line to the coordinate plane.	<ul style="list-style-type: none"> Absolute value and length of a line. Midpoint of a segment. Equation of a line: point-slope and slope intercept form. Comparison of parallel and perpendicular lines. 	<u>Midpoint Formula</u> January 2000, #21 August 2002, #17
DAY 49	Midpoint Formula	Questions 9–11; Example 2	<u>On Your Own</u> Questions 16-24, 28, 29b, 30b, 31b For Extension: 26			

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				Key Ideas / Performance Indicators	Includes	
SEMESTER C	CHAPTER 2: INVESTIGATING GEOMETRIC FIGURES					
	Lesson 2-1: Triangles NYS Core: 4A					
	DAY 50	Part 1: The Triangle-Sum Theorem	Work Together; Questions 1–3; Example 1; Questions 5-9; Example 2	<u>On Your Own</u> Questions 9-20, 23 For Extension: 29	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Study of triangles: classifications of scalene, isosceles, equilateral, acute, obtuse, and right; triangular inequality; sum of the measures of the angles of a triangle; exterior angle of a triangle; base angles of an isosceles triangle.
Lesson 2-2: Polygons NYS Core: 4A, 5B						
DAY 51	Part 1: Polygons and Interior Angles	Questions 1-3; Work Together; Example 1	<u>On Your Own</u> Questions 1-9, 10a-13a, 19-26, 28, 29 For Extension: 27, 30	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Simple closed curves: polygons and circles Sum of interior and exterior angles of a triangle. Direct and indirect measure. 	August 2001, #9 June 2002, #13
DAY 52	Part 2: Exterior Angles	Question 4; Examples 2-3	<u>On Your Own</u> Questions 10b-13b, 14-17 For Extension: 18	5: Measurement 5B: Choose and apply appropriate units and tools in measurement situations.		

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				Key Ideas / Performance Indicators	Includes	
Lesson 2-3: Parallel and Perpendicular Lines in the Coordinate Plane NYS Core: 4A, 5G						
DAY 53	Part 1: Slope and Graphing Lines	Questions 1-3; Example 1	<u>On Your Own</u> Questions 1-3, 23 For Extension: 26, 29	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Parallel and intersecting lines and perpendicular lines. Comparison of parallel and perpendicular lines. 	
DAY 54	Part 2: Parallel and Perpendicular Lines	Work Together; Questions 5–8; Example 2	<u>On Your Own</u> Questions 4-22, 24, 25 For Extension: 27, 28	5: Measurement 5G: Relate absolute value, distance between two points, and the slope of a line to the coordinate plane.		
DAY 55	More Practice with Slope and Equation of a Line	<u>Resource Pro CD</u> , Vol. 2 Chapter Support Files; Chap. 2; Lesson 2-3: Reteaching worksheet 2-3	<u>Practice Workbook</u> Practice worksheet 2-3			

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				Key Ideas / Performance Indicators	Includes	
Lesson 2-4: Classifying Quadrilaterals						
NYS Core: 4A, 6A						
DAY 56	Classifying Quadrilaterals	Work Together; Questions 1-3; Examples 1-3	<u>On Your Own</u> Questions 1-27 For Extension: 28-31	<p>4: Modeling/Multiple Representation</p> <p>4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.</p> <p>6: Uncertainty</p> <p>6A: Judge the reasonableness of results obtained from applications in algebra, geometry, trigonometry, probability, and statistics.</p>	<ul style="list-style-type: none"> Study of quadrilaterals: classification and properties of parallelograms, rectangles, rhombi, squares, and trapezoids. 	<p><u>Properties of quadrilaterals</u> August 1999, #9 January 2000, #25 June 2001, #26</p>
Lesson 2-5: Circles						
NYS Core: 5D						
DAY 57	Part 1: Parts of a Circle	Questions 1-3; Example 1	<u>On Your Own</u> Questions 3-5, 9, 22, 24, 26 For Extension: 48	<p>5: Measurement</p> <p>5D: Use statistical methods including measures of central tendencies to describe data.</p>	<ul style="list-style-type: none"> Collecting and organizing data: sampling, tally, chart, frequency table, circle graphs, broken line graphs, frequency histogram, box and whisker plots, scatter plots, stem and leaf plots, and cumulative frequency histogram. 	<p><u>Central angle in a circle graph</u> August 1999, #24</p>

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				Key Ideas / Performance Indicators	Includes	
Lesson 2-6: Congruent and Similar Figures <i>NYS Core: 5F, 5I</i>						
DAY 58	Part 1: Congruent Figures	Examples 1-2; Question 1	<u>On Your Own</u> Questions 1-10, 25-27, 35, 44 For Extension: 32-34, 38	5: Measurement 5F: Apply proportions to scale drawings and direct variation. 5I: Use geometric relationships in relevant measurement problems involving geometric relationships.	<ul style="list-style-type: none"> • Ratio. • Proportion. • Scale drawings. • Similar figures. • Similar polygons: ratio of perimeters and areas. 	
DAY 59	Part 2: Similar Polygons	Examples 3-4; Questions 2, 3; Work Together; Questions 7-9	<u>On Your Own</u> Questions 11-24, 28-31, 36, 37, 40-43 For Extension: 39, 45			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
SEMESTER D BEGINS	CHAPTER 3: TRANSFORMATIONS: SHAPES IN MOTION					
	Lesson 3-1: Reflections NYS Core: 4C					
	DAY 1	Part 1: An Introduction to Transformations	Questions 1–4; Example 1	<u>On Your Own</u> Questions 1-8, 9ab, 18, 22-25 For Extension: 19	4: Modeling/Multiple Representation 4C: Use transformations in the coordinate plane.	• Reflection in a line and in a point.
DAY 2	Part 2: Reflections	Work Together; Questions 6, 7, 9; Examples 2-3; Questions 10, 11	<u>On Your Own</u> Questions 9c, 10-17, 20, 26-28 For Extension: 21, 29			
Lesson 3-2: Translations NYS Core: 4C						
DAY 3	Translations and Vectors	<u>Resource Pro CD</u> , Vol. 2 Chapter Support Files; Chap. 3; Lesson 3-2: Reteaching worksheet 3-2; Questions 1–5 or Work Together; Questions 1–5; Examples 1-2	<u>On Your Own</u> Questions 1-12, 17-19, 21, 23, 27 For Extension: 13-15	4: Modeling/Multiple Representation 4C: Use transformations in the coordinate plane.	• Translations.	June 1999, #3 August 2002, #11

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				Key Ideas / Performance Indicators	Includes	
Lesson 3-3: Rotations <i>NYS Core: 3C, 4C</i>						
DAY 4	Rotations	Work Together; Questions 1–5; Examples 2-3 Practice Workbook: Worksheet 3-3, Questions 4–9	<u>On Your Own</u> Questions 1-18, 21-25, 28-30 For Extension: 19, 26, 27	3: Operations 3C: Recognize and identify symmetry and transformations on figures. 4: Modeling/Multiple Representation 4C: Use transformations in the coordinate plane.	<ul style="list-style-type: none"> Intuitive notions of line reflections, translation, rotation, and dilation. 	August 1999, #3 August 2002, #12
Lesson 3-5: Symmetry <i>NYS Core: 3C</i>						
DAY 5	Part 1: Reflectional Symmetry	Examples 1-2; Question 1	<u>On Your Own</u> Questions 15-18, 30-32, 44, 45 For Extension: 14, 40	3: Operations 3C: Recognize and identify symmetry and transformations on figures.	<ul style="list-style-type: none"> Line and point symmetry. 	June 1999, #21 June 2000, #2 January 2001, #10
DAY 6	Part 2: Rotational Symmetry	Example 3; Questions 2, 3; Work Together	<u>On Your Own</u> Questions 1-13, 19-28, 38, 41-43, 46 For Extension: 29, 33-37, 39			

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				Key Ideas / Performance Indicators	Includes	
Lesson 3-7: Dilations <i>NYS Core: 3C, 4C</i>						
DAY 7	Dilations and Scale Factors	Work Together; Questions 1-4	<u>On Your Own</u> Questions 1-12, 18-21, 32-40 For Extension: 24, 29-31	3: Operations 3C: Recognize and identify symmetry and transformations on figures. 4: Modeling/Multiple Representation 4C: Use transformations in the coordinate plane.	<ul style="list-style-type: none"> Intuitive notions of line reflections, translation, rotation, and dilation. Dilations. 	June 2000, #13 August 2000, #28 August 2001, #28 June 2002, #16
DAY 8	Dilations and Scalar Multiplication	Examples 1-2; Question 5	<u>On Your Own</u> Questions 13-17, 25-28 For Extension: 22, 23			

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				Key Ideas / Performance Indicators	Includes	
SEMESTER D	CHAPTER 4: TRIANGLE RELATIONSHIPS Lesson 4-1: Using Logical Reasoning NYS Core: 1A, 1B, 6A					
DAY 9	Part 1: Conditionals and Converses	Examples 1-2; Questions 1-4 Practice Workbook: Worksheet 4-1, Questions 1–10	<u>On Your Own</u> Questions 1-10, 11a-18a For Extension: 27, 31	1: Mathematical Reasoning 1A: Construct valid arguments. 1B: Follow and judge the validity of arguments. 6: Uncertainty 6A: Judge the reasonableness of results obtained from applications in algebra, geometry, trigonometry, probability, and statistics.	<ul style="list-style-type: none"> Truth-value of simple sentence (closed sentences, open sentences with replacement set and solution set, negations). Truth-value of compound sentences. 	<u>Conditionals, Converses, Inverses, Contrapositives</u> June 1999, #2 August 1999, #12 June 2000, #14 January 2001, #12 June 2001, #12 August 2001, #4, #16 January 2002, #20
DAY 10	Part 2: Biconditionals, Inverses and Contrapositives	Examples 3-4; Questions 5-7 Practice Workbook: Worksheet 4-1, Questions 11–20	<u>On Your Own</u> Questions 11bc-18bc, 19-26, 28-30 For Extension: 32-35			
NY 13: Conjunctions and Disjunctions NYS Core: 1A						
DAY 11	Conjunctions and Disjunctions	Examples 1-3; Questions 1-3	<u>On Your Own</u> For Extension: 1-6, 22-28	1: Mathematical Reasoning 1A: Construct valid arguments.	<ul style="list-style-type: none"> Truth-value of compound sentences (conjunction, disjunction, conditional, related conditionals such as converse, inverse, and contrapositive, and biconditional). 	August 1999 #28 January 2000, #3 January 2001, #29 June 2002, #21

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				Key Ideas / Performance Indicators	Includes	
Lesson 4-2: Isosceles Triangles						
NYS Core: 4A						
DAY 12	Isosceles Triangle Theorem	Work Together; Questions 1–3; Example 1	<u>On Your Own</u> Questions 1-3, 6, 7, 9, 12, 14, 22, 24, 25, 27, 29, 30 33 For Extension: 10, 11, 21, 28, 31, 32, 36-40	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Study of triangles: classifications of scalene, isosceles, equilateral, acute, obtuse, and right; triangular inequality; sum of the measures of the angles of a triangle; exterior angle of a triangle, base angles of an isosceles triangle. 	June 1999, #30 June 2000, #27 June 2001, #7 January 2002, #23
DAY 13	Converse of the Isosceles Triangle Theorem	Questions 4-7; Examples 2-3	<u>On Your Own</u> Questions 4, 5, 8, 13, 15, 19, 23, 26, 29 For Extension: 16, 17, 18, 20, 34, 35			
Lesson 4-4: Midsegments of Triangles						
NYS Core: 5G, 5I						
DAY 14	Folding to Discover Midsegment Properties	Work Together; Questions 1–3 Practice Workbook: Worksheet 4-4, Questions 2, 5–7	<u>On Your Own</u> Questions 1-4, 9-11 For Extension: 6, 15	5: Measurement 5G: Relate absolute value, distance between two points, and the slope of a line to the coordinate plane. 5I: Use geometric relationships in relevant measurement problems involving geometric concepts.	<ul style="list-style-type: none"> Midpoint of a segment. Similar figures. 	
DAY 15	Algebraic Applications of Midsegments	Examples 1-2; Questions 5-7 Practice Workbook: Worksheet 4-4, Questions 1, 3, 4	<u>On Your Own</u> Questions 5, 12-14 For Extension: 7, 8, 17			

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				Key Ideas / Performance Indicators	Includes	
Lesson 4-6: Triangle Inequalities						
NYS Core: 4A						
DAY 16	Part 1: Triangle Inequality Theorem	Work Together; Questions 1–5; Example 1 Practice Workbook: Worksheet 4-6, Questions 1–12	<u>On Your Own</u> Questions 1-8, 27 For Extension: 23, 31-34	4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Study of triangles: classifications of scalene, isosceles, equilateral, acute, obtuse, and right; triangular inequality; sum of the measures of the angles of a triangle; exterior angle of a triangle, base angles of an isosceles triangle. 	June 1999, #5 January 2000, #10 August 2000, #18 June 2002, #27 August 2002, #14
	Part 2: Inequalities Relating Sides and Angles	Work Together; Questions 6–8; Examples 2, 3 Practice Workbook: Worksheet 4-6, Questions 13–24	<u>On Your Own</u> Questions 9-21, 24, 28-30 For Extension: 22, 25, 26			

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				Key Ideas / Performance Indicators	Includes	
Lesson 4-7: Bisectors and Locus						
NYS Core: 4D						
DAY 18	Part 1: Perpendicular Bisectors and Locus	Work Together; Questions 1–10 Practice Workbook: Worksheet 4-7, Questions 1–6	<u>On Your Own</u> Questions 1-9, 12, 23-28. 30-32 For Extension: 17, 18, 22	4: Modeling/Multiple Representation 4D: Develop and apply the concept of basic loci.	<ul style="list-style-type: none"> • Locus. • At a fixed distance from a point. • At a fixed distance from a line. • Equidistant from two points. • Equidistant from two parallel lines. • Equidistant from two intersecting lines. • Compound locus. 	August 1999, #25 January 2000, #20 June 2000, #32 January 2001, #27 August 2001, #31 August 2002, #3
DAY 19	Part 2: Angle Bisectors and Locus	Work Together; Questions 11–16	<u>On Your Own</u> Questions 10, 13, 14, 29 For Extension: 19			
DAY 20	Intersection of Loci	Example 3 <u>Resource Pro CD</u> , Vol. 2 Chapter Support Files; Chap. 4; Lesson 4-7: Reteaching worksheet 4-7; Questions 1–7	<u>On Your Own</u> Questions 11, 15, 16, 21 For Extension: 20, 33-37			

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
SEMESTER D	CHAPTER 5: MEASURING IN THE PLANE					
	Lesson 5-1: Understanding Perimeter and Area NYS Core: 5A					
DAY 21	Part 1: Finding Perimeter	Work Together; Questions 1-7; Example 1	<u>On Your Own</u> Questions 1-11 For Extension: 39-42	5: Measurement 5A: Apply formulas to find measures such as length, area, volume, weight, time, and angle in real-world contexts.	<ul style="list-style-type: none"> Perimeter of polygons and circumferences of circles. Area of polygons and circles. 	June 1999, #16 June 2001, #32 January 2002, #12 August 2002, #6 <u>Algebraic Applications</u> August 1999, #5 January 2000, #28 August 2000, #31 August 2001, #24 June 2002, #27
DAY 22	Part 2: Finding Area	Questions 8-10; Example 2	<u>On Your Own</u> Questions 12-26, 29-32, 43, 44 For Extension: 27, 33-38			
NY 4: Perimeters and Areas of Similar Figures						
NYS Core: 5I						
DAY 23	Perimeters and Areas of Similar Figures	Work Together; Questions 1-3, 4-7; Examples 1, 3; Questions 8, 10	<u>On Your Own</u> Questions 1-4, 6, 7, 9, 14, 15, 18, 19 For Extension: 8, 21, 23	5: Measurement 5I: Use geometric relationships in relevant measurement problems involving geometric concepts.	<ul style="list-style-type: none"> Similar polygons: ratio of perimeters and areas. Similar figures. 	August 2000, #15, #23 August 2001, #1 June 2002, #15
NY 5: Areas and Volumes of Similar Solids						
NYS Core: 5I						
DAY 24	Areas and Volumes of Similar Solids	Work Together; Questions 1-5; Examples 1, 2; Questions 7, 8	<u>On Your Own</u> Questions 1-4, 6, 8, 10-13, 16 For Extension: 15, 17, 18	5: Measurement 5I: Use geometric relationships in relevant measurement problems involving geometric concepts.	<ul style="list-style-type: none"> Similar figures. Comparison of volumes of similar solids. 	June 2001, #3

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 5-2: Areas of Parallelograms and Triangles						
NYS Core: 5A						
DAY 25	Part 1: Areas of Parallelograms	Work Together; Questions 1-2; Examples 1-2; Questions 3-5	<u>On Your Own</u> Questions 4, 5, 7, 16-18 For Extension: 33, 34	5: Measurement 5A: Apply formulas to find measures such as length, area, volume, weight, time, and angle in real-world contexts.	• Area of polygons and circles.	June 2001, #34
DAY 26	Part 2: Areas of Triangles	Example 3; <u>On Your Own</u> Questions 1-6, 9-12, 19, 20, 29	<u>On Your Own</u> Questions 21-28 For Extension: 30-32, 35, 36			
New York Lessons						
NY 6: The Tangent Ratio						
NYS Core: 5E						
DAY 27	Using the Tangent Ratio and the Inverse Tangent Ratio	Examples 1-3; Questions 1-9	<u>On Your Own</u> Questions 1-4, 5-8, 9-14 For Extension: 26	5: Measurement 5E: Use trigonometry as a method to measure indirectly.	• Right triangle trigonometry.	June 1999, #34 August 1999, #27 June 2000, #30 January 2001, #35 June 2002, #31
NY 7: The Sine and Cosine Ratios						
NYS Core: 5E						
DAY 28	Using Sine and Cosine	Examples 1-3; Questions 1-6	<u>On Your Own</u> Questions 1-16, 20-23	5: Measurement 5E: Use trigonometry as a method to measure indirectly.	• Right triangle trigonometry.	August 2000, #33
NY 8: Angles of Elevation and Depression						
NYS Core: 5E						
DAY 29	Angles of Elevation and Depression	Examples 1-3; Questions 1-3	<u>On Your Own</u> Questions 1-6, 12 For Extension: 10b, 11	5: Measurement 5E: Use trigonometry as a method to measure indirectly.	• Right triangle trigonometry.	August 2000, #33

PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 5-3: The Pythagorean Theorem and Its Converse NYS Core: 2A, 4A, 5A, 5G						
DAY 30	The Pythagorean Theorem	Work Together; Questions 1-7; Examples 1, 2	<u>On Your Own</u> Questions 1, 3, 6, 7, 9, 25, 27, 29, 47 For Extension: 23	2: Number and numeration 2A: Understand and use rational and irrational numbers. 4: Modeling/Multiple Representation 4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	<ul style="list-style-type: none"> Real Numbers including irrational numbers, such as non-repeating decimals, irrational roots, and pi. Formulas and literal equations. Study of triangles: classifications of scalene, isosceles, equilateral, acute, obtuse, and right... Pythagorean Theorem. Absolute value and length of a line segment. 	
DAY 31	The Converse of the Pythagorean Theorem	Example 3; Questions 8, 9	<u>On Your Own</u> Questions 2, 4, 5, 10, 26, 28, 30, 48 For Extension: 31	5: Measurement 5A: Apply formulas to find measures such as length, area, volume, weight, time, and angle in real-world contexts. 5G: Relate absolute value, distance between two points, and the slope of a line to the coordinate plane.		

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				Key Ideas / Performance Indicators	Includes	
Lesson 5-4: Special Right Triangles <i>NYS Core: 2A, 4A, 5A</i>						
DAY 32	45°, 45°, 90° Triangles	Work Together; Questions 1-5; Example 1	<u>On Your Own</u> Questions 1, 2, 5, 6, 10 For Extension: 27	<p>2: Number and numeration</p> <p>2A: Understand and use rational and irrational numbers.</p> <p>4: Modeling/Multiple Representation</p> <p>4A: Represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.</p>	<ul style="list-style-type: none"> Real Numbers including irrational numbers, such as non-repeating decimals, irrational roots, and pi. Formulas and literal equations. Study of triangles: classifications of scalene, isosceles, equilateral, acute, obtuse, and right... Pythagorean Theorem. 	August 1999, #20 June 2000, #27 August 2002, #31
DAY 33	30°, 60°, 90° Triangles	Work Together; Questions 6-9; Examples 2, 3	<u>On Your Own</u> Questions 3, 4, 7, 8, 9, 15 For Extension: 25	<p>5: Measurement</p> <p>5A: Apply formulas to find measures such as length, area, volume, weight, time, and angle in real-world contexts.</p>		

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
Lesson 5-5: Areas of Trapezoids						
NYS Core: 5A						
DAY 34	Areas of trapezoids	Work Together; Questions 1-4; Examples 1-2	<u>On Your Own</u> Questions 1-5, 7-21 For Extension: 6, 22, 23	5: Measurement 5A: Apply formulas to find measures such as length, area, volume, weight, time, and angle in real-world contexts.	<ul style="list-style-type: none"> Area of polygons and circles. 	June 2001, #34
Lesson 5-7: Circles: Circumference and Arc Length						
NYS Core: 2A, 5A						
DAY 35	Circumference (Arc Length is Math B)	Work Together; Examples 1-2; Questions 1-3	<u>On Your Own</u> Questions 1-8, 17 For Extension: 26, 27	2: Number and Numeration 2A: Understand and use rational and irrational numbers. 5: Measurement 5A: Apply formulas to find measures such as length, area, volume, weight, time, and angle in real-world contexts.	<ul style="list-style-type: none"> Real numbers including irrational numbers, such as non-repeating decimals, irrational roots, and pi. Area of polygons and circles. 	<u>Circumference</u> August 2001, #8
Lesson 5-8: Areas of Circles, Sectors and Segments						
NYS Core: 2A, 5A						
DAY 36	Areas of Circles (Area of Sectors and Segments not on Math A)	Work Together; Example 1; Questions 1-6	<u>On Your Own</u> Questions 1-6, 17 For Extension: 11	2: Number and Numeration 2A: Understand and use rational and irrational numbers. 5: Measurement 5A: Apply formulas to find measures such as length, area, volume, weight, time, and angle in real-world contexts.	<ul style="list-style-type: none"> Real numbers including irrational numbers, such as non-repeating decimals, irrational roots, and pi. Area of polygons and circles. 	<u>Area of Circle</u> June 1999, #31 August 1999, #32 January 2000, #12 June 2001, #29 August 2001, #5 June 2002, #28

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK	NYS CORE CURRICULUM		PRACTICE TEST ITEM Math A Exam Month / Year / Problem Link: www.jmap.org
				Key Ideas / Performance Indicators	Includes	
SEMESTER D	CHAPTER 6: MEASURING IN SPACE					
	Lesson 6-4: Volumes of Prisms and Cylinders					
	NYS Core: 5A					
DAY 37	Part 1: Volumes of Prisms	Questions 8-12; Example 1	<u>On Your Own</u> Questions 2, 3, 6-12 For Extension: 19, 20, 25	5: Measurement 5A: Apply formulas to find measures such as length, area, volume, weight, time, and angle in real-world contexts.	• Volume of solids.	June 1999, #27 January 2000, #30 January 2002, #27 August 2002, #15
DAY 38	Part 2: Volumes of Cylinders	Example 2; Question 14	<u>On Your Own</u> Questions 1, 4, 5, 13-18, 21, 24 For Extension: 22, 23			
Lesson 6-8: Geometric Probability						
NYS Core: 6A, 6B						
DAY 39	Using an Area Model	Examples 2, 3; Questions 3-7	<u>On Your Own</u> Questions 1-4, 9 For Extension: 13	6: Uncertainty 6A: Judge the reasonableness of results obtained from applications in algebra, geometry, trigonometry, probability, and statistics. 6B: Use experimental and theoretical probability to represent and solve problems involving uncertainty.	• Theoretical versus empirical probability. • Single and compound events. • Problems involving <i>and</i> and <i>or</i> .	January 2002, #31
Review and Practice with Regents – Type Questions						

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PACING	NEW YORK MATH A Chapter / Lesson / Unit	SUGGESTED CLASSWORK	SUGGESTED HOMEWORK
DAY 40	Preparing for Math A (page 55)	p. 55 Questions 1-7	p. 55 Questions 8-14
DAY 41	Preparing for Math A (page 105)	p. 105 Questions 1-5	p. 105 Questions 4-9
DAY 42	Preparing for Math A (page 155)	p. 155 Questions 1-4, 10, 12, 14	p. 155 Questions 5-9, 11,13, 15
DAY 43	Preparing for Math A (page 211)	p. 211 Questions 1-4, 9, 12, 14	p. 211 Questions 5-8, 10, 13, 15
DAY 44	Preparing for Math A (page 265)	p. 265 Questions 1-4, 9, 11, 13	p. 265 Questions 5-8, 10,12, 14
DAY 45	Preparing for Math A (page 315)	p. 315 Questions 1-4, 8, 10, 12	p. 315 Questions 5-7, 9, 11
DAY 46	Preparing for Math A (page 359)	p. 359 Questions 1-5, 14, 16	p. 359 Questions 6-10, 15, 17
DAY 47	Preparing for Math A (page 411)	p. 411 Questions 3-7, 8,9	p. 411 Questions 10, 14, 15
DAY 48	Preparing for Math A (page 461)	p. 461 Questions 1-5, 9,11	p. 461 Questions 6-8, 12, 14
DAY 49	Preparing for Math A (page 507)	p. 507 Questions 1-5, 11, 13, 15	p. 507 Questions 6-10, 12, 14, 16
DAY 50	Preparing for Math A (pages 553-555)	pp. 553-555 Questions 1-10, 25-29	pp. 553-555 Questions 11-15, 30 – 33
DAY 51	Preparing for Math A (pages 553-555 continued)	pp. 553-555 Questions 17-24, 34,35	pp. 553-555 Questions 36-40, 45-48
DAY 52	Preparing for Math A (page 627)	p. 627 Questions 3, 5, 9, 11, 13	p. 627 Questions 2, 4, 6, 12, 14
DAY 53	Preparing for Math A (page 683)	p. 683 Questions 1, 3, 5, 9, 11	p. 683 Questions 2, 6, 8, 12, 14
DAY 54	Preparing for Math A (page 801)	p. 801 Questions 1, 3, 5, 7, 11	p. 801 Questions 2, 4, 6, 12