

ALGEBRA 1 HONORS 9TH GRADE
Algebra Structure and Method Book 1 McDougal Littell
 May 2007

Correlated with Neufeld Learning Systems Inc. Understanding Math PLUS programs September 2007

Algebra 1 Honors 9th Grade

Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
1	Syllabus/Introduction					Mental Math, Math Biography, Math Blog, Human Patterns	
2 _/_	Evaluating Expression and Order of Operations	MA.B.1.4.1 MA.D.1.4.1 MA.A.1.4.3	1.1 1.2 1.4	p.T78-T79 FCAT p.1 FCAT p.3	Variable, Simplify, Substitution, Evaluate, Grouping, PEMDAS, Formula	<p><u>Understanding Math PLUS</u> <u>Understanding Whole Numbers and Integers</u> Topic 9. Order of Operations Why use Order of Operations? BEDMAS Example Questions Examples 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Word Problems Shipping Babysitting Garbage Practice Questions Topic Test</p> <p><u>Understanding Algebra</u> Topic 4. Patterns, Formulas, Substitution Substitution Examples Examples 1, 2, 3, 4 Practice Questions Topic Test</p>	
3 _/_	Number Line and Integer Operations,	MA.A.1.4.2 MA.C.3.4.2 MA.A.1.4.1 MA.A.2.4.4 MA.A.3.4.2 MA.A.3.4.3	1.8 1.9 2.2	FCAT p.9-12	Origin, Positive, Negative, Integer, Whole Number, Natural Number, Opposites, Absolute Value, Graph, Coordinate, Real Number,	<p><u>Understanding Math PLUS</u> <u>Understanding Whole Numbers and Integers</u> Topic 4. The Meaning of Integers Absolute Values Examples 1, 2 Comparing Integers Examples 1, 2, 3, 4 Example Questions</p>	

					<p>Inequality</p> <p>Examples 1, 2, 3, 4, 5, 6 Practice Questions Topic Test</p> <p>Topic 5. Adding Integers Summary... Using a Number Line Writing Positive Integers Examples 1, 2, 3 Word Problems Temperature Money Car Practice Questions Topic Test</p> <p>Topic 6. Subtracting Integers Example Questions Example 1 – With Brackets Example 2 – With Brackets Example 3 – Meaning of... $2 - 5$ Example 4 – Meaning of... $-7 - 3$ Example 5 – Meaning of... $-7 + 9 - 18$ Example 6 – Meaning of... $-4 - 9 + 2 - 8$ Summary from Examples 3 to 6 Going for a Walk Preliminary The Walk David's Trip Part 1, Part 2 Summary Word Problems The Sailboat The Bank Practice Questions Topic Test</p> <p>Topic 7. Multiplying Integers Negative X Negative... Note Patterns Patterns 1, 2 Summary #2... Signs Example Questions Examples 1, 2, 3, 4, 5 Word Problems Washing Cars The Helicopter Construction Practice Questions</p>	
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						<p>Topic Test</p> <p>Topic 8. Dividing Integers The Inverse of Multiplication Examples 1, 2 Summary #1... Signs Summary #2... Signs Example Questions Examples 1, 2, 3, 4 Word Problems Casino Plant Graham's Walk Practice Questions Topic Test</p> <p>Integer Football</p>	
4 _ / _	Simplifying Expressions using Properties of Real Numbers, Comparing Rational Numbers	MA.A.3.4.2 MA.A.3.4.3 MA.A.3.4.1 MA.A.1.4.3 MA.A.1.4.4 MA.A.2.4.2	2.1 2.3 2.4 11.1 11.2	p.T85 p.T131	Rational Number, Irrational Number, Closure, Commutative, Associative, Term, Decimal Form, Fraction Form, Terminating, Repeating	<p><u>Understanding Math PLUS</u> <u>Understanding Fractions</u> Topic 1. The Meaning of Fractions Comparison of Fractions The Symbol Greater Than - Ex. 1, Ex. 2 Less Than - Ex. 1, Ex. 2 Greater and Less Than - Ex. 1, Ex. 2 Concept 1 - Fraction Strips Concept 2 - Circles Examples 1, 2, 3, 4</p> <p>SWAT Game</p>	

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehou se Test Items
5 __/__	Simplifying Expressions using Distributive Property and Multiplicative Property	MA.A.3.4.2 MA.A.3.4.1	2.5 2.6	FCAT p.13	Distribution, Distributive Property, Multiplicative Property	<p><u>Understanding Math PLUS</u> <u>Understanding Algebra</u> Topic 5. Adding Expressions Our Problem Adding Expressions with X and Y Tiles Examples 1, 2, 3 Adding Expressions with X-Squared Tiles Examples 1, 2, 3 Adding Expressions without Tiles Examples 1, 2 Practice Questions with Tiles Practice Questions without Tiles Topic Test</p> <p>Topic 6. Subtracting Expressions Our Problem Subtracting Expressions with X and Y Tiles Concept Examples 1, 2 Subtracting Expressions with X-Squared Tiles Examples 1, 2 Subtracting Expressions without Tiles Practice Questions with Tiles Practice Questions without Tiles Topic Test</p>	1046,1059
6 __/__	Simplifying Expressions using Reciprocals of Real Numbers and Division of Real Numbers	MA.A1.4.4 MA.A.1.4.2 MA.A.3.4.1	2.8 2.9		Reciprocal, Inverse, Quotient		
7 __/__	Review FCAT Practice		N/A	FCAT p.8 FCAT p.16			

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8 _/_	Test/Journal Writing		N/A				
9 _/_	Sentence Translation of Equations, Using Problem Solving Plan to Solve Problems with Equations	MA.A.1.4.3 MA.A.3.4.1	1.3 1.5 1.6 1.7	FCAT p.5 p.T78-T80	Equation, Open Sentence, Domain, Solution, Solve, 5-Step Plan, Charts	<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 4. Solving Multi-Step Equations Our Problem Concepts – Examples with Tiles Concepts – Examples without Tiles Examples 1, 2, 3, 4, 5 Summary Literal Equations What Are They? How do you solve them? Why Solve the Literal Equations? A Perimeter Example A Temperature Example Practice Questions Topic Test	1045,1055
10 _/_	Solving Equations using Addition, Subtraction, Multiplication, Division-Variable on One Side	MA.A.3.4.1 MA.D.2.4.2 MA.B.1.4.3 MA.C.2.4.1 MA.D.2.4.2	3.1 3.2	FCAT p.17-18 p.T89-90	Equivalent, Transformation of Equations	<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 5. Problem Solving Words and Symbols The Translation Machine Examples 1, 2, 3, 4 The Trick Machine Instructions The Machine Explanation with Pictures Explanation with Symbols Area of Walls Chemistry Pool Puzzler – The First Problem	

						Perimeter Problem with Diagram Money Problem with Chart Age Problem with Chart Buying CDs Meat Mixture Coffee Mixture Rate of Work Summary: Problem Solving Using Equations Practice Questions Topic Test	
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*FALL SEMESTER: On first early release day, take FCAT Benchmark #1.

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11 __/_	Using Several Transformations, Solving Equations with Variable on Both Sides	MA.A.3.4.2 MA.D.2.4.2	3.3 3.5	FCAT p.20 p.T90,p.T92	Inverse, Empty Set, Null Set, Identity		1050
12 __/_	Quiz/Project					Color by Equation	
13 __/_	Problem Solving using Equations, Consecutive Number Problems,	MA.D.2.4.2 MA.A.3.4.1	3.4 2.7	FCAT p.19 FCAT p.22 p.T91	Consecutive, Even, Odd	Pass Game	1061

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
14 __/__/	Solving Problems Using Charts, Cost/Income/Value Problems	MA.D.2.4.2	3.6 3.7	p.T87 p.T92-93	Charts, Cost, Income, Value	<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 5. Problem Solving Words and Symbols The Translation Machine Examples 1, 2, 3, 4 The Trick Machine Instructions The Machine Explanation with Pictures Explanation with Symbols Area of Walls Chemistry Pool Puzzler – The First Problem Perimeter Problem with Diagram Money Problem with Chart Age Problem with Chart Buying CDs Meat Mixture Coffee Mixture Rate of Work Summary: Problem Solving Using Equations Practice Questions Topic Test Problem-Solving Poster-Students Write Own Word Problems, Include Solution	
15 __/__/	Transforming Equations	MA.B.1.4.1 MA.D.1.4.1	4.7	p.T98	Transforming Formulas		
16 __/__/	Review/FCAT Practice		N/A	FCAT p.27			

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17 __/__/	Test/Journal Writing		N/A				
18 __/__/	LAB/Project		N/A				
19 __/__/	Ratios and Proportions	MA.A.3.4.2 MA.B.2.4.2 MA.B.1.4.3	7.1 7.2	FCAT p.77 p.T111-112	Ratio, Proportion, Means, Extremes	<u>Understanding Math PLUS</u> <u>Understanding Percent</u> Topic 4. Ratios and Proportions Ratios in the News What is a Ratio? Examples 1.Fraction Strip 2.Balls 3.Students 4.Gears Writing Ratios Concept Examples 1, 2, 3, 4 What is a Proportion? Proportions Example 1 Example 2 – Lemonade Example 3 – Marbles Example 4 – Trout Example 5 – Tree Height Example 6 – Map Example 7 – Scale Drawing Ratios and Your Body Golden Ratios Measuring Your Body Practice Questions Topic Test	

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
20 __/__/	Solving Rational Equations	MA.A.1.4.4 MA.B.2.4.2 MA.B.1.4.3	7.3 7.4	p.T112-113	Fractional Coefficients, LCD		
21 __/__/	Quiz/Project		N/A				
22 __/__/	Percent Problems	MA.A.1.4.4 MA.A.1.4.2 MA.A.3.4.2	7.5 7.6	FCAT p.26 FCAT p.78 p.T113-114	Percent, Percent Change	<u>Understanding Math PLUS</u> <u>Understanding Percent</u> Topic 6. Problems Involving Percent In This Topic Steps in Solving Problems Finding the Whole Recall Proportion School Population: Method 1... Using Proportions School Population: Method 2 Grades Problem: Method 1... Using Proportions Grades Problem: Method 2 Bike Sale: Method 1... Using Proportions Bike Sale: Method 2 Finding the Percent Theatre Problem Car Problem Percent of a Number Earnings Problem Nickel Ore Percents Greater than 100% Number Problem Order Problem Percents Less than 1% Number Problem Pencil Problem	

						Mental Calculation Number Problem Tipping Percent Change Interest Tree Problem Percent Markup Practice Questions Topic Test	
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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
23 __/__	Scientific Notation and Review	MA.A.1.4.4 MA.A.1.4.2 MA.A.2.4.2	7.10	FCAT p.64 p.T117	Scientific Notation, Expanded Notation	<u>Understanding Math PLUS</u> <u>Understanding Exponents</u> Topic 4. Scientific Notation Scientific Notation for Small Numbers Introduction Chart The Steps Examples 1. Number Question 2. Park Question 3. Sun Question 4. Kitchen Question Practice Questions Topic Test	
24 __/__	Cumulative Test/ Journal Writing		N/A				
25 __/__	Graphing Concepts and Graphing Points, Identifying Solutions to Linear Equations	MA.D.1.4.1 MA.D.1.4.3	8.2 8.1	p.T117-118	Ordered Pair, Coordinate Plane, Abscissa, Ordinate, Quadrants, X- axis, Y-axis	<u>Understanding Math PLUS</u> <u>Understanding Graphing</u> Topic 3. Points on a Grid Ordered Pairs Axis Quadrants and Cartesian Plane Find a Point	1066

						<p>Order is Important Examples Shapes Battleship Topic Test</p> <p>Topic 6. Linear Relations In This Topic What is a Linear Relation? Graphs of Linear Relations Concept Examples 1, 2, 3, 4, 5, 6 The Taxi Example – Setup Equation – Graph Equation The Elastic Example – Setup Equation – Graph Equation Lightning Example – Setup Equation – Graph Equation</p>	
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*FALL SEMESTER: On second early release day, take FCAT Benchmark #2.

*SPRING SEMESTER: On second early release day, take FCAT Benchmark #4.

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26 __/__/	Graphing a Linear Equation in Standard Form using a Table of Values and Intercepts	MA.D.1.4.1 MA.A.1.4.3	8.2	FCAT p.21 FCAT p.30-31	Table of Values, X-intercept, Y- intercept	Understanding Math PLUS Understanding Graphing Topic 8. Equation of a Straight Line Graph $y = mx + b$ Examples 1, 2, 3, 4 Patterns to Summary Examples 5, 6, 7	
27 __/__/	Finding Slope of a Line and Graphing a Linear Equation using Slope-Intercept Form	MA.C.3.4.2 MA.D.1.4.1 MA.C.3.4.2	8.3 8.4	FCAT p.32 FCAT p.34 FCAT p.38-39 p.T118-120	Slope, Collinear, Slope-Intercept Form	Understanding Math PLUS Understanding Graphing Topic 8. Equation of a Straight Line Slope y - intercept Equation Concept Examples 1, 2, 3, 4	1072,1913, 1908
28 __/__/	Quiz/Project						

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29 _/_	Determining the Equation of a Line	MA.D.1.4.1 MA.C.3.4.2	8.5	FCAT p.45-46 p.T120	Standard Form	<u>Understanding Math PLUS</u> <u>Understanding Graphing</u> Topic 8. Equation of a Straight Line Slope – Point Form of the Equation Example 1: Solutions 1, 2 Example 2: Solutions 1, 2, 3, 4 Special Cases Example 1 – Zero Slope Example 2 – Undefined Example to Summarize Word Problems/ Applications The Taxi Cases 1, 2 Find Equation Graph Equation Interpret Equation Summary The Walker Basketball Food Point of Intersection of Two Lines Examples 1, 2 Practice Questions Zap It!	1080
30 _/_	Determining the Equation of Parallel and Perpendicular Lines	MA.C.3.4.2	Extra p.370	FCAT p.40-42	Parallel, Perpendicular	<u>Understanding Math PLUS</u> <u>Understanding Graphing</u> Topic 8. Equation of a Straight Line Parallel and Perpendicular Lines Concepts 1, 2 Examples 1, 2, 3, 4	
31 _/_	Line of Best Fit	MA.C.3.4.2 MA.E.1.4.1	Application p. 378	FCAT p.29 FCAT p.43	Scatter Plot, Line of Best Fit	<u>Understanding Math PLUS</u> <u>Understanding Graphing</u> Topic 6. Linear Relations Line of Best Fit Examples 1, 2 Guess the Ages	

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
32 __/__/	Functions and Relations, Domain and Range, Function Notation	MA.D.1.4.1 MA.D.1.4.2 MA.E.1.4.1 MA.C.2.4.1	Extra p.389 8.7	FCAT p.7 FCAT p.36 FCAT p.61 p.T121	Function, Relation, Domain, Range, Input, Output, Mapping, Function Notation, Function Value	<u>Understanding Math PLUS</u> <u>Understanding Graphing</u> Topic 5. Relations, Equations, and Functions In This Topic Relations What is a Relation? Domain and Range Example 1 – Triangles Example 2 – Tiles, Part 1 Example 3 – Tiles, Part 2 Example 4 – Running Example 5 – Hit the Ball Functions What is a Function? – Examples 1, 2, 3 Vertical Line Test Examples 1, 2, 3 Function Notation Examples 1, 2 Clapping Functions	
33 __/__/	Graphing Linear Functions, Direct Variation, Interpreting Tables and Graphs	MA.E.1.4.1 MA.D.1.4.1 MA.C.2.4.2 MA.B.1.4.3	8.8 (Linear Only) 8.9	FCAT p.6 FCAT p.33 p.T121	Direct Variation, Constant Rate, Constant of Variation	<u>Understanding Math PLUS</u> <u>Understanding Graphing</u> Topic 5. Relations, Equations, and Functions Patterns to Words to Equations Examples 1, 2, 3, 4 Practice Questions Topic Test	
34 __/__/	LAB/Project					Walk the Line Tie the Knot	

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35 __/__/	Review/FCAT Practice			FCAT p.37 FCAT p.50			
36 __/__/	Test/Journal Writing						
37 __/__/	Solving Linear Systems of Equations by Graphing	MA.D.2.4.2	9.1	p.T123	System of Equations, Solutions of a System, Intersection Point, System of Simultaneous Equations, Coinciding	<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 6. Solving Linear Systems In This Topic The Meaning of a Linear System The Meaning of Solving a Linear System Solve a Linear System by Graphing Examples 1, 2 – Intersecting Lines Examples 3, 4 – Intersecting Lines Involving Fractions Example 5 – Parallel Lines Example 6 – Coincidental Lines	1915

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
38 __/__/	Solving Systems of Equations using Substitution	MA.A.3.4.2 MA.D.2.4.2	9.2	p.T123		<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 6. Solving Linear Systems Solve a Linear System by Substitution Examples 1, 2 – Intersecting Lines Examples 3, 4 – Intersecting Lines Involving Fractions Example 5 – Parallel Lines Example 6 – Coincidental Lines	1058,1068
39 __/__/	Solving Systems of Equations using Addition Method (Elimination Method)	MA.D.2.4.2	9.4 9.5	p.T124-125		<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 6. Solving Linear Systems Solve a Linear System by Elimination Examples 1, 2 – Intersecting Lines Examples 3, 4 – Intersecting Lines Involving Fractions Example 5 – Parallel Lines Example 6 – Coincidental Lines	
40 __/__/	Solving Problems with Systems of Equations-any Method	MA.D.2.4.2	9.3	p.T124		<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 6. Solving Linear Systems Solve Problems Using Linear Systems Examples 1, 2: Beginning of Question, Draw Graph Practice Questions Topic Test	

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
41 _/_	Midterm Review						
42 _/_	MIDTERM						
43 _/_	System of Equations LAB						

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
44 __/__/	Review/FCAT Practice		N/A				
45 __/__/	Test		N/A				
46 __/__/	Understanding Inequalities, Ordering Real Numbers and Solving Inequalities	MA.A.1.4.2 MA.A.2.4.1 MA.A.3.4.1	10.1 10.2	FCAT p.4 p.T126-127	Inequality, Graph of an Inequality, Equivalent Inequalities, Closed, Open	<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 7. Solving Inequalities Comparing Integers The Integer Line Example 1... Greater Than; Example 2... Less Than Explanation Example 3... Greater Than; Example 4... Less Than Greater Than or Less Than Inequalities What Are They? Inequality vs. Equation Summary of Relationships Inequality on the Number Line Examples 1, 2, 3, 4	1056

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
47 __/__/	Solving Word Problems Involving Inequalities		10.3	FCAT p.51-52 p.T127-128		<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 7. Solving Inequalities Solving Inequalities Examples 1, 2, 3, 4, 5, 6	
48 __/__/	Solving Combined Inequalities	MA.A.3.4.1	10.4	FCAT p.53 p.T128	Combined Inequalities, Conjunction, Disjunction	<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 7. Solving Inequalities Solving Compound Inequalities Examples 1, 2	1064
49 __/__/	Graphing Linear Inequalities	MA.D.2.4.2	10.7	FCAT p.54 p.T130	Open Half Plane, Boundary, Closed Half Plane	<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 7. Solving Inequalities Graphing Linear Inequalities in Two Variables Concepts 1, 2 Examples 1, 2, 3	

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Number Sense, Concepts, and Operations

Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
50 __/__	Graphing Systems of Linear Inequalities	MA.D.2.4.2	10.8	p.T130		<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 7. Solving Inequalities Solving Systems of Linear Inequalities by Graphing Examples 1, 2	
51 __/__	Linear Programming LAB	MA.D.2.4.2	Application p.499		Linear Programming	<u>Understanding Math PLUS</u> <u>Understanding Equations</u> Topic 7. Solving Inequalities Linear Programming What is it? A Fund Raising Example The Objective Function He Shoots He Scores-Math Forum Problem of the Week	
52 __/__	Review/FCAT Practice			FCAT p.58			

*FALL SEMESTER: On third early release day, take FCAT Benchmark #3.

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
53 _/_	Test/Journal Writing						
54 _/_	Laws of Exponents, Negative Exponents	MA.A.1.4.4 MA.A.2.4.2 MA.A.3.4.1 MA.A.3.4.2 MA.A.3.4.3 MA.A.1.4.4	4.1 4.3 4.4 6.2 7.9	FCAT p.2 p.T94 p.T96 p.T108 p.T116	Exponent, Power, Base, Exponential Form, Laws of Exponents, Negative Exponent	Understanding Math PLUS Understanding Exponents Topic 3. The Exponent Rules In This Topic Multiplication of Powers with the Same Base Expanding the Exponents The Pattern In General Division of Powers with the Same Base Expanding the Exponents The Pattern In General Raising a Power to an Exponent Expanding the Exponents The Pattern In General Raising a Product to an Exponent Expanding the Exponents In General A Power with Exponent 0 Explanation with b ; Explanation with a Summary A Power with a NEGATIVE Exponent Method 1: Explanation with b Method 2: Explanation with k Method 3: Bacteria Doubling Summary Summary of Exponent Rules Powers with Rational Bases Examples 1, 2, 3 In General	1048,1051, 1057

						Example Questions Examples 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	
						Find Volume Using Area and Height p.154	
55 —/—	Polynomial Concepts, Adding and Subtracting Polynomials	MA.A.3.4.1 MA.A.3.4.3	4.2	FCAT p.72 p.T95	Monomial, Polynomial, Binomial, Trinomial, Coefficient, Degree, Descending, Ascending, Constant	<u>Understanding Math PLUS</u> <u>Understanding Algebra</u> Topic 5. Adding Expressions Adding Expressions without Tiles Examples 1, 2 Practice Questions with Tiles Practice Questions Topic Test Topic 6. Subtracting Expressions Subtracting Expressions without Tiles Practice Questions with Tiles Practice Questions without Tiles Topic Test PowerPoint	

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
56 __/__	Quiz/Project					Brickyard Project	
57 __/__	Multiplying Polynomials by Monomials, Multiplying Binomials	MA.A.3.4.1 MA.A.3.4.2 MA.A.3.4.3 MA.D.1.4.1	4.5 5.4	FCAT p.73 p.T96 p.T102	FOIL	Understanding Math PLUS Understanding Algebra Topic 7. Multiplying Expressions Multiplying Monomials Like Terms With Tiles Without Tiles Multiplying Monomials and Polynomials With Tiles... Examples 1, 2, 3, 4 Without Tiles Multiplying Binomials With Tiles... Examples 1, 2 Without Tiles Pattern Sums/Differences of Cubes p.239	1053
58 __/__	Multiplying Polynomials	MA.A.3.4.1 MA.A.3.4.2 MA.A.3.4.3	4.6	p.T97		Understanding Math PLUS Understanding Algebra Topic 7. Multiplying Expressions Examples... True or False Examples 1, 2, 3 Practice Questions Topic Test	

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Number Sense, Concepts, and Operations

Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
59 __/__	Distance-Rate-Time Problems	MA.B.1.4.2 MA.B.2.4.2	4.8	p.T98	Uniform Motion		1069
60 __/__	Area Problems (Touch on Problems Without Solutions)	MA.B.3.4.1 MA.A.3.4.1	4.9 4.10	p.T99		<u>Understanding Math PLUS</u> <u>Understanding Measurement and Geometry</u> Topic 2. Perimeter and Area of Polygons Relationship – Area and Perimeter The Information The Graph Given Area and Perimeter – Create Shape Example 1 Example 2 Example 3 Example 4 Problems Section Length of Fence Area of a Wall The Tablecloth Practice Questions Topic Test	
61 __/__	Review/FCAT						

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
62 __/__/	Test						
63 __/__/	LAB/Project						
64 __/__/	Factoring Integers, Prime Factorization, GCF, Dividing Monomials	MA.D.1.4.1	5.1 5.2	p.T100-101	Factor, Prime Number, Prime Factorization, GCF, Multiple	<u>Understanding Math PLUS</u> <u>Understanding Algebra</u> Topic 3. Patterns, Patterns, Patterns Factor Pairs in Arrays Factors of 8, 12, 16, 20, 5, 15, 18 Prime and Composite Prime Numbers Composite Numbers Common Factors/GCF Examples 1, 2	

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
65 __/__/	Dividing Polynomials by Monomials, Factoring GCF		5.3	p.T101	Divisible, Divisor, Greatest Monomial Factor	<u>Understanding Math PLUS</u> <u>Understanding Algebra</u> Topic 9. Dividing Expressions Dividing a Monomial by a Monomial Examples 1, 2, 3, 4 Dividing a Polynomial by a Monomial Concept Examples 1, 2, 3 Summary	1078
66 __/__/	Introduction to Quadratics and Parabolas Review FOIL, Factoring Quadratics	MA.A.3.4.2 MA.D.1.4.1 MA.C.2.4.1	5.7,5.8 8.8	p.T103-104 p.T121-122	Irreducible Polynomial, Prime Polynomial. Parabola, Minimum Point, Maximum Point, Axis of Symmetry, Vertex, Quadratic Function	<u>Understanding Math PLUS</u> <u>Understanding Graphing</u> Topic 9. Quadratic Functions Introductory Examples Examples 1, 2 Summary Examples 1, 2 Definitions Parabolas Quadratic Functions The Role of a The Plan: $a = 1, 2, 3$ $a = -1, -2, -3$ Parabolas with the Same Width Summary The Role of c The Plan: Increase c Summary The Role of b Examples 1, 2, 3, 4 Summary and Pattern In General Intercepts of a Quadratic Function Method 1: Graphing... Examples 1, 2 Method 2: Factoring (If Possible)... Examples 1, 2 Method 3: Using the Quadratic Formula... Examples 1, 2	1070
67 __/__/	Quiz/LAB						

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
68 __/__/	Perfect Squares, Factoring Difference of Squares, Perfect Square Trinomials	MA.A.3.4.2 MA.D.1.4.1	5.5 5.6	p.T102-103	Perfect Square, Perfect Square Trinomial	<u>Understanding Math PLUS</u> <u>Understanding Algebra</u> Topic 8. Factoring Expressions Factoring Trinomials With Tiles - Examples 1, 2 The Pattern Without Tiles – Examples 1, 2, 3, 4 Difference of Squares Examples 1, 2, 3, 4	
69 __/__/	Factoring Four Term Polynomials, Mixed Factoring	MA.A.3.4.2 MA.D.1.4.1	5.10 5.11	p.T105	Factor Completely	<u>Understanding Math PLUS</u> <u>Understanding Algebra</u> Topic 8. Factoring Expressions Factoring by Grouping – Concept Examples 1, 2, 3, 4, 5 Summary Examples 1, 2, 3, 4 Practice Questions	
70 __/__/	Solving Quadratics using Factoring and Graphing (X- Intercepts)	MA.A.3.4.2 MA.D.1.4.1	5.12 5.13	p.T106	Converse, Cubic, Standard Form of a Polynomial Equation	<u>Understanding Math PLUS</u> <u>Understanding Graphing</u> Topic 9. Quadratic Functions Maximize Cage Area Trial and Error Use Quadratic Function Graph Conclusions Summary Maximize Potato Income Trial and Error Quadratic Function Graph Summary Quadratic Equations Graphing Lab	1084

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
71 _/_	Review/FCAT			FCAT p.71 FCAT p.82			
72 _/_	Test						
73 _/_	FINAL REVIEW						

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Number Sense, Concepts, and Operations

Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
74 __/_	FINAL						
75 __/_	Simplifying Rational Expressions, Identifying Restrictions	MA.A.3.4.2 MA.A.3.4.3 MA.D.1.4.1	6.1	FCAT p. 14 FCAT p.81 p.T107	Restricted Values		1076
76 __/_	Multiplying and Dividing Rational Expressions	MA.A.3.4.2 MA.A.3.4.3 MA.D.1.4.1	6.2 6.3	p.T108-109			1052

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
77 _/_	Finding LCD, Adding and Subtracting Rational Expressions	MA.A.3.4.2 MA.A.3.4.3 MA.D.1.4.1	6.4 6.5	p.T109-110	LCD, Mixed Expression		1063
78 _/_	Review/FCAT						
79 _/_	Test						

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
80 __/__/__	Rational and Irrational Square Roots, Square Roots of Variable Expressions	MA.A.1.4.2 MA.B.1.4.2 MA.C.3.4.1	11.3 11.4 11.5	FCAT p.65 FCAT p.67 p.T132-134	Rational Numbers, Irrational Numbers		1071
81 __/__/__	Solving Square Root Equations, Pythagorean Theorem, Right Triangle Trigonometry	MA.B.1.4.2 MA.C.3.4.1	11.5 11.6 p.627	FCAT p.84 p.T134-135	Pythagorean Theorem, Special Right Triangles (45-45-90 and 30-60-90)	Understanding Math PLUS Understanding Exponents Topic 6. Pythagorean Theorem The Right Triangle Math or Magic? Introduction Omar's Rope Trick #1, #2 Our Rope Trick Squares on a Grid Examples 1, 2, 3, 4 Squares on the Sides of a Right Triangle Triangles 1, 2, 3 The Pythagorean Theorem The Pattern In General Theorem Example Questions Example 1... Pole Example Example 2... Tower Example Example 3... Walking Example Example 4... Lake Example Example 5... Geometric Example Practice Questions Topic Test	
82 __/__/__	Distance and Midpoint of Coordinates, Midpoint of Rational Numbers LAB	MA.C.3.4.2	p.535 11.1		Distance Formula, Midpoint Formula, Halfway		

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Day/ Date	Topic	Benchmark	Textbook Section	Supplemental Resources	Vocabulary	Activities Extensions	Data Warehouse Test Items
83 __/__/__	Multiplying and Dividing Square Roots (Basics), Adding and Subtracting Similar Radicals (Basics)	MA.A.1.4.1 MA.A.2.4.2 MA.A.3.4.3 MA.A.3.4.1	11.7 11.8	p.T134-136			
84 __/__/__	Review/FCAT						
85 __/__/__	Test						

Teacher Comments: