Grade 8	VAN BUREN SCHOOL DISTRICT	
Module 1	Start: 8/20/2007 Teaching Days: 30 Test: 10/10/2007 Remediation Days: 0	End: 10/4/2007
M.12.8.2	Describe and apply equivalent measures using a variety of units within the same system of measurement	Prerequisite WB with pg 718-721
M.13.8.1	Draw and apply measurement skills with fluency to appropriate levels of precision (TLI: grade 7 length was measured to nearest mm or nearest 1/16 inch)	Need supplement
A.4.8.1	Find the nth term in a pattern or a function table	First part on pg 9 then pg 251 and 378 Be sure to cover early
A.4.8.2	Using real world situations, describe patterns in words, tables, pictures, and symbolic representations	Goes along with A.4.8.1 may need supplement
NO.2.8.2	Understand and apply the inverse and identity properties.	Use L1-4 but also througout Ch 3
A.5.8.3c	Combine like terms within polynomials	L3-2
A.5.8.3a	Translate sentences into algebraic equations	L3-5
NO.2.8.3a	Use inverse relationships (addition and subtraction, multiplication and division) in problem solving situations	L3-5 Also throughout Ch3
NO.2.8.1	Apply the addition, subtraction, multiplication and division properties of equality to two-step equations	L3-5
NO.2.8.4	Apply rules (conventions) for order of operations to rational numbers	L4-2 supplement with L1-2 and Alg WB
NO.3.8.4b	Apply factorization to find GCF of algebraic expressions (Ex. For $4x^2 y^3$, $6xy^2$, the GCF is $2xy^2$)	L4-4 Be sure to work with monomials
NO.1.8.1	Read, write, compare and solve problems, with and without appropriate technology, including numbers less than 1 in scientific notation (TLI: and numbers greater than one.)	L4-8 Be sure to cover L4-7 #36-39
NO.1.8.2	Convert between scientific notation and standard notation, including numbers from zero to one	L4-8
		End of Module 1

Grade 8	VAN BUREN SCHOOL DISTRICT	
Module 2	Start: 10/11/2007 Teaching Days: 39 Test: 12/5/2007 Remediation Days: 0	End: 12/6/2007
NO.3.8.3a	Use estimation to solve problems involving rational numbers, then judge the reasonableness of solutions	Ch 5 Be sure to emphasize Problem solving
NO.1.8.3	Compare and order real numbers including irrational numbers and find their approximate location on a number line (Use technology when appropriate)	L5-2 Be sure to supplement with L9-2 early
NO.2.8.5	Model and develop addition, subtraction, multiplication and division of rational numbers (Ex. -8½ + 2¾)	L5-3 through L5-7
NO.3.8.4a	Apply factorization to find LCM of algebraic expressions (Ex. For $4x^2 y^3$ and $6xy^2$, the LC M is $12x^2y^3$)	L5-6 Be sure to work with the monomials
DAP.15.8.3	Create a data set given at least one of the measures of central tendency	L5-8
NO.3.8.1	Compute, with and without appropriate technology, with rational numbers in multi-step problems	Need some supplement
NO.3.8.2	Solve, with and without appropriate technology, multi-step problems using a variety of methods and tools (i.e. objects, mental computation, paper and pencil)	Need some supplement
NO.3.8.3	Use estimation to solve problems involving rational numbers; including ratio, proportion, percent (increase or decrease) then judge the reasonableness of solutions.	Ch 6
NO.3.8.3b	Use estimation to solve problems involving ratio and proportion, then judge the reasonableness of solutions	Ch 6 Be sure to emphasize Problem solving
M.13.8.3c	Apply proportional reasoning to solve problems involving rates	L6-1 Use the enrichment WS from this lesson
M.13.8.3b	Apply proportional reasoning to solve problems involving scale drawings	L6-3
NO.3.8.6	Solve, with and without technology, real world percent problems including percent of increase or decrease (TLI: also tips, sales tax, discounts, interest, commissions, etc.)	L6-7 and L6-8 Pg; 301; 28-41
NO.3.8.3c	Use estimation to solve problems involving percent (increase or decrease) then judge the reasonableness of solutions	L6-8 (we are not covering this in 7th)
A.5.8.1b	Solve and graph two-step inequalities with one-variable and verify the reasonableness of the result with real world application with and without technology	L7-3 through L7-6
A.5.8.3b	Translate sentences into inequalities	L7-3 through L7-6
		End of Module 2

Grade 8	VAN BUREN SCHOOL DISTRICT	
Module 3	Start: 12/6/2007 Teaching Days: 32 Test: 3/5/2008 Remediation Days: 0	End: 2/7/2008
A.4.8.3	Interpret and represent a two operation function as an algebraic equation (Ex. y = 2x + 1)	Throughout Ch 8
A.4.8.4	Use tables, graphs, and equations to identify independent/dependent variables (input/output)	Ch 8 Be sure to look at pg 368
A.5.8.1a	Solve and graph two-step equations with one-variable and verify the reasonableness of the result with real world application with and without technology	Throughout Ch 8
A.6.8.2	Represent, with and without appropriate technology, linear relationships concretely, using tables, graphs and equations	Throughout Ch 8
A.6.8.3	Differentiate between independent/dependent variables given a linear relationship in context	Ch 8 May need supplement
A.6.8.4a	Represent, with and without appropriate technology, simple exponential functions using verbal descriptions, tables, graphs and formulas and translate among these representations	Ch 8 small intro. on pg 376 (linear vs nonlinear) Need supplement
A.6.8.4b	Represent, with and without appropriate technology, simple quadratic functions using verbal descriptions, tables, graphs and formulas and translate among these representations	Goes with A.6.8.4a Need supplement
A.7.8.1	Use, with and without technology, graphs of real life situations to describe the relationship and analyze change including graphs of change (cost per minute) and graphs of accumulation (total cost)	Throughout Ch 8
G.10.8.1b	Use coordinate geometry to explore the links between geometric and algebraic representations of problems (slope/parallel-perpendicular lines)	Throughout Ch 8 with supplement
A.6.8.1	Describe, with and without appropriate technology, the relationship between the graph of a line and its equation, including being able to explain the meaning of slope as a constant rate of change (rise/run) and y-intercept in real-world problems	L8-4 and L8-5
A.5.8.2a	Solve linear equations in the form y=mx+b	L8-6
A.5.8.2b	Graph linear equations in the form y = mx+b	L8-6
DAP.14.8.2	Explain which types of display are appropriate for various data sets (Ex. scatter plot for relationship between two variants and line of best fit)	L8-2 Supplement with L1-7 and Prerequisite WB
DAP.14.8.3g	Interpret or solve real-world problems using data from scatter plots	L8-2 go back to L1-7 if needed
		End of Module 3

Grade 8	VAN BUREN SCHOOL DISTRICT	
Module 4	Start: 3/6/2008 Teaching Days: 49 Test: 5/16/2008 Remediation Days: 0	End: 5/16/2008
NO.2.8.3b	Use inverse relationships (squaring and square roots) in problem solving situations	L9-1
NO.3.8.5	Calculate and find approximations of square roots with appropriate technology	L9-1
NO.1.8.4	Understand and justify classifications of numbers in the real number system	L9-2
M.12.8.1	Understand, select and use, with and without appropriate technology, the appropriate units and tools to measure angles, perimeter, area, surface area and volume to solve real world problems	L9-3 and L3-7 and L11-2 through L11-5
M.13.8.4	Find the distance between two points on a coordinate plane using the Pythagorean theorem	L9-5
G.10.8.1a	Use coordinate geometry to explore the links between geometric and algebraic representations of problems (lengths of segments/distance between points) (TLI: These will use the Pythagorean Theorem)	Work this between L9-5 and L9-6 (Plot points to form a right triangle and then find the distance of hypotenuse by Pythagorean Theorem
M.13.8.3a	Apply proportional reasoning to solve problems involving indirect measurements	L9-7
G.9.8.1	Determine a transformation's line of symmetry and compare the properties of the figure and its transformation	L10-3
G.9.8.2a	Draw the results of translations about the x- and y-axis	L10-3
G.9.8.2b	Draw the results of reflections about the x- and y-axis	L10-3
G.9.8.2c	Draw the results of rotations of objects about the origin	L10-3
M.13.8.5	Estimate and compute the area of irregular two-dimensional shapes	L10-8
G.8.8.1	Form generalizations and validate conclusions about properties of geometric shapes	Ch 10 and 11
G.8.8.2	Make, with and without appropriate technology, and test conjectures about characteristics and properties between two-dimensional figures and three-dimensional objects (Ex. circle vs. cylinder, square vs. cube, triangle and triangular prism, etc.)	Ch 10 and 11
G.11.8.1	Using isometric dot paper, interpret and draw different views of buildings	Ch 11 pg 554
M.13.8.2b	Solve problems involving volume of composite figures with and without appropriate technology	L11-2 and L11-3
M.13.8.2a	Solve problems involving volume of pyramids and cones with and without appropriate technology	L11-3
M.13.8.2d	Solve problems involving surface area of composite figures with and without appropriate technology	L11-4 and L11-5
M.13.8.2c	Solve problems involving surface area of pyramids and cones with and without appropriate technology	L11-5
DAP.14.8.1	Design and conduct investigations which include *adequate number of trials *unbiased sampling *accurate measurement *record-keeping	Need a supplement activity

Grade 8	VAN BUREN SCHOOL DISTRICT	
Module 4	Start: 3/6/2008 Teaching Days: 49 Test: 5/16/2008 Remediation Days: 0	End: 5/16/2008
DAP.14.8.3	Interpret or solve real world problems using data from charts, line plots, stem-and-leaf plits, double-bar graphs, line graphs, box-and-whisker plots, scattter plots, frequency tables or double line graphs	pg 722-723
DAP.14.8.3a	Interpret or solve real-world problems using data from charts	Ch 12 May need a supplement
DAP.14.8.3b	Interpret or solve real-world problems using data from line plots	Ch 12 May need a supplement
DAP.14.8.3c	Interpret or solve real-world problems using data from stem-and leaf plots	L12-1
DAP.14.8.3d	Interpret or solve real-world problems using data from double-bar graphs	Ch 12 Need supplement
DAP.14.8.3e	Interpret or solve real-world problems using data from line graphs and double line graphs	Ch 12 Need supplement
DAP.14.8.3f	Interpret or solve real-world problems using data from box-and whisker plots	L12-3
DAP.14.8.3h	Interpret or solve real-world problems using data from frequency tables	Ch 12 Need supplement
DAP.15.8.1	Compare and contrast the reliability of data sets with different size populations (Ex. 40/80 vs. 40/800)	Ch 12 Need supplement
DAP.15.8.2	Analyze, with and without appropriate technology, graphs by comparing measures of central tendencies (TLI: mean, median, mode) and measures of spread (TLI: range, quartile, interquartile range)	L12-2
DAP.15.8.4	Describe how the inclusion of outliers affects measures of central tendency	L12-2 May need supplement
DAP.16.8.1	Use observations about differences between sets of data to make conjectures about the populations from which the data was taken	Ch 12 Need supplement
DAP.17.8.1	Compute, with and without appropriate technology, probabilities of compound events, using organized lists, tree diagrams and logic grid	L12-9
DAP.17.8.2	Make predictions based on theoretical probabilities, design and conduct an experiment to test the predictions, compare actual results to predict results, and explain differences (Ex. suggested materials for simulations are: polyhedra die, random number table, and technology)	L12-9
		End of Module 4

Grade 8 Standards Not Yet Requested for Testing	VAN BUREN SCHOOL DISTRICT
Algebra(A)	
A.5.8.4	Write and evaluate algebraic expressions using rational numbers
A.6.8.4	Represent, with and without appropriate technology, simple exponential and/or quadratic functions using verbal descriptions, tables, graphs and formulas and translate among these representations
Geometry(G)	
G.8.8.3a	Determine appropriate application of congruence and similarity, with and without appropriate technology
G.8.8.3b	Determine appropriate application of the Pythagorean theorem, with and without appropriate technology