

Algebra I VAN BUREN SCHOOL DISTRICT		
Module 1 Start: 8/20/2007 Teaching Days: 29 Test: 10/10/2007 Remediation Days: 0		
LA.1.AI.1a	Evaluate algebraic expressions, excluding radicals, by applying the order of operations	1.1A, 1.1B, Supplement LA7-a/0-undefined, 1.1C, 1.1D, 1.2, 1.3A, 1.3B, 1.4A, 2.5, Add in DIP.5, DIP.6 and enrich
SEI.2.AI.7	Use coordinate geometry to represent and/or solve problems (midpoint, length of a line segment, and Pythagorean Theorem)	1.1C
DIP.5.AI.3	Construct simple matrices for real life situations	2.1
DIP.5.AI.8	Compute simple probability with replacement and without replacement	2.4A, 2.4B, 2.4C
SEI.2.AI.1a	Solve multi-step equations with rational coefficients: numerically (from a table or guess and check) and algebraically	2.2A, 2.2B
SEI.2.AI.1b	Solve multi-step equations with rational coefficients graphically and technologically	2.2A, 2.2B, 2.2C, 2.3A, 2.3B, 2.3C, 3.2A, 3.2B, 3.3A, 3.3B, 3.4A, 3.4B
SEI.2.AI.4a	Solve and graph simple absolute value equations	3.1A, 3.1B
End of Module 1		

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Module 2 Start: 10/11/2007 Teaching Days: 39 Test: 12/5/2007 Remediation Days: 0		
SEI.2.AI.1c	Solve multi-step inequalities with rational coefficients: numerically (from a table or guess and check) and algebraically	5.1A, 5.1B
SEI.2.AI.1d	Solve multi-step inequalities with rational coefficients graphically and technologically	4.2A, 4.2B, 4.2C, 5.1A, 5.1B
SEI.2.AI.3	Solve linear formulas and literal equations for a specified variable (Ex. Solve for p in $I = prt.$)	4.1A, 4.1B, 5.2A, 5.2B, 5.3A, 5.3B
SEI.2.AI.4b	Solve and graph simple absolute value inequalities	4.2D Enrich w/SEI.4b and LA.2c
SEI.2.AI.5a	Solve real world problems that involve a combination of rates and proportions	5.4A, 5.4B, 5.4C
SEI.2.AI.5b	Solve real world problems that involve percents	5.4A, 5.4B, 5.4C
SEI.2.AI.6a	Solve problems involving direct variation to model rates of change	5.3C, Insert enrichment 5.4D
SEI.2.AI.6b	Solve problems involving indirect (inverse) variation to model rates of change	Insert enrichment 5.4D
End of Module 2		

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Module 3 Start: 12/6/2007 Teaching Days: 31 Test: 3/5/2008 Remediation Days: 0		
LA.1.AI.3	Apply the laws of (integral) exponents and roots	6.1A, 6.1B, 6.2A, 6.2B, 6.2C, 6.2D, 6.3
LA.1.AI.4	Solve problems involving scientific notation, including multiplication and division (TLI will include addition, subtraction, multiplication, and division.)	6.4
LA.1.AI.5a	Perform polynomial operations (addition and subtraction) with and without manipulatives	7.2A, 7.2B
LA.1.AI.5b	Perform polynomial multiplication with and without manipulatives	7.3A, 7.3B, 7.3C, 7.3D, 7.3E
NLF.4.AI.1	Factor polynomials: greatest common factor, binomials (difference of squares), trinomials	7.4A, 7.4B, 7.4C, 7.4D, 8.1E
SEI.2.AI.1a	Solve multi-step equations with rational coefficients: numerically (from a table or guess and check) and algebraically	Review
SEI.2.AI.1c	Solve multi-step inequalities with rational coefficients: numerically (from a table or guess and check) and algebraically	Review
SEI.2.AI.5a	Solve real world problems that involve a combination of rates and proportions	Review
SEI.2.AI.5b	Solve real world problems that involve percents	Review
End of Module 3		

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Module 4 Start: 3/6/2008 Teaching Days: 49 Test: 5/14/2008 Remediation Days: 0		
LA.1.AI.1b	Evaluate algebraic expressions, including radicals, by applying the order of operations	Enrich in Unit 11
LA.1.AI.7	Recognize when an expression is undefined	9.3A, 9.3B, 9.3C
LA.1.AI.8	Simplify radical expressions	11.3A, 11.3B, 11.3C
LA.1.AI.9a	Add and subtract simple radical expressions	11.4A, 11.4B
LA.1.AI.9b	Multiply simple radical expressions	11.4C, 11.4D
SEI.2.AI.2a	Solve systems of two linear equations numerically (from a table or guess and check) and algebraically with and without manipulatives	10.2A and enrich with SEI.2b, 10.2B and enrich with SEI.2a, 10.2C, 10.2E, 10.2F
SEI.2.AI.2b	Solve systems of two linear equations graphically and technologically	10.2A, 10.2B
SEI.2.AI.3	Solve linear formulas and literal equations for a specified variable (Ex. Solve for p in $I = prt$.)	Review skill in Unit 9
SEI.2.AI.7	Use coordinate geometry to represent and/or solve problems (midpoint, length of a line segment, and Pythagorean Theorem)	12.1A, 12.1B
LF.3.AI.1	Distinguish between functions and non-functions/relations by inspecting graphs, ordered pairs, mapping diagrams and/or tables of data	10.3A, 10.3B, enrich with NLF.2a and NLF.2b
LF.3.AI.2	Determine domain and range of a relation from an algebraic expression, graphs, set of ordered pairs, or table of data	10.3A, 10.3B
LF.3.AI.3	Know and/or use function notation, including evaluating functions for given values in their domain	10.4A
LF.3.AI.4	Identify independent variables and dependent variables in various representational modes: words, symbols, and/or graphs	10.3A, 10.3B
LF.3.AI.5	Interpret the rate of change/slope and intercepts within the context of everyday life (Ex. telephone charges based on base rate (y-intercept) plus rate per minute [slope])	Incorporate into 8.4A - chapter 5 section 3
LF.3.AI.6	Calculate the slope given: two points, the graph of a line, and the equation of a line	8.3A, 8.3B, 8.4A and enrich with LF.5, 9.1A, 9.1B and enrich with DIP.1 which will be added to 9.4
LF.3.AI.7	Determine by using slope whether a pair of lines are parallel, perpendicular, or neither	9.3C
NLF.4.AI.1	Factor polynomials: greatest common factor, binomials (difference of squares), trinomials	8.1A, 8.1B, 8.1C, 8.1D, 8.1E, 11.2A, 11.2B
DIP.5.AI.7	Recognize linear functions and non-linear functions by using a table or a graph	8.2A, 8.2B, 8.2C, 8.2D, 10.3A, 10.3B, 10.4A, 10.4B, 10.4C
End of Module 4		

Algebra I Standards Not Yet Requested for Testing		VAN BUREN SCHOOL DISTRICT
Language of Algebra(LA)		
LA.1.AI.2a	Translate word phrases and sentences into expressions and equations and vice versa	
LA.1.AI.2b	Translate word phrases and sentences into inequalities and vice versa	
LA.1.AI.6	Simplify algebraic fractions by factoring	
Linear Functions(LF)		
LF.3.AI.8a	Write an equation in slope-intercept, point-slope, and standard form given: two points, a point and y-intercept, x-intercept and y-intercept, and a point and slope	
LF.3.AI.8b	Write an equation in slope-intercept, point-slope, and standard form given: a table of data and the graph of a line	
LF.3.AI.9	Describe the effects of parameter changes, slope and/or y-intercept, on graphs of linear functions and vice versa	
Non-Linear Functions(NLF)		
NLF.4.AI.2a	Determine minimum, maximum, and/or vertex of a function given the graph	
NLF.4.AI.2b	Determine the zeros of a function given the graph	
NLF.4.AI.3	Solve quadratic equations using the appropriate method with and without technology : factoring, quadratic formula with real number solutions	
NLF.4.AI.4a	Recognize quadratic function families (with rational coefficients) and their connections including vertical shift and reflection over the x-axis	
NLF.4.AI.4b	Recognize absolute value function families and their connections including vertical shift and reflection over the x-axis	
NLF.4.AI.4c	Recognize exponential function families and their connections including vertical shift and reflection over the x-axis	
Data Interpretation and Probability(DIP)		
DIP.5.AI.1	Construct and use scatter plots and line of best fit to make inferences in real life situations	
DIP.5.AI.2	Use simple matrices in addition, subtraction, and scalar multiplication	
DIP.5.AI.4	Determine the effects of changes in the data set on the measures of central tendency	
DIP.5.AI.5	Use two or more graphs (box-and-whisker, histograms, scatter plots) to compare data sets	
DIP.5.AI.6	Construct and interpret a cumulative frequency histogram in real life situations	
DIP.5.AI.9	Recognize patterns using explicitly defined and recursively defined linear functions	
DIP.5.AI.11	Explain how sampling methods, bias, and phrasing of questions in data collection impact the conclusions	
DIP.5.AI.12	Recognize when arguments based on data confuse correlation with causation	