SLZUSD: Suggested Pacing Guide for 8th Grade Math/Algebra Readiness 2008-2009

Text: McDougal Littell Algebra Readiness and Algebra

Time	Topics: Content & Assessment	CA Standards	Textbook
14 teaching days	**Unit 1**		**Algebra Readiness Text**
	Compare and Order Integers (use integer models, # line)	A 2.0	4.1
	Absolute Value	7 NS 2.5	4.1
	Add Integers	7 NS 1.2	4.2
	Subtract Integers	7 NS 1.2	4.3
	Multiply Integers	7 NS 1.2	4.4
	Divide Integers	7 NS 1.2	4.5
	Use Order of Operations	7 NS 1.2, 7 AF 2.1	1.2
13 teaching days	**Unit 2**		**Algebra Readiness Text**
	Simplify Fractions using decomposition	7 NS 1.2	2.1
	Write Mixed Numbers and Improper Fractions	7 NS 1.2	2.2
	Add and Subtract Fractions with the Same Denominators	7 NS 1.2	2.3
	Add and Subtract Fractions with Different Denominators	7 NS 1.2	2.4
	Multiply Fractions	7 NS 1.2	2.5
	Find Reciprocals	A 2.0	2.6
	Divide Fractions	7 NS 1.2	2.7

[1] **NS**- Number Sense **AF**- Algebra and Functions **MG**- Measurement and Geometry
MR- Mathematical Reasoning **SDP**- Statistics, Data Analysis, and Probability

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Time	Topics: Content & Assessment	CA Standards	Textbook
14 teaching days	**Unit 3**		**Algebra Readiness Text**
	Add and Subtract Decimals	7 NS 1.2	3.1
	Multiply Decimals	7 NS 1.2	3.2
	Divide Decimals	7 NS 1.2	3.3
	Convert Between Fractions and Decimals	7 NS 1.3, 7 NS 1.5	3.4
	Write Percents as Fractions and Decimals	7 NS 1.3	3.5
	Write Decimals and Fractions as Percents	7 NS 1.3	3.6
	Find a Percent of a Number	7 NS 1.3	3.7
	Use Formulas	7 NS 1.2, 7 AF 4.2	1.3
	Calculate Percent of Increase or Decrease	7 NS 1.6	(Algebra script)
	Solve Problems Involving Discounts, Markups, Commissions, and Interest	7 NS 1.7	3.7
14 teaching days	**Unit 4**		**Algebra Readiness Text**
	Find the Area and Perimeter of Common 2-Dimensional Shapes	7 MG 2.1	(Algebra script)
	Find the Volume and Surface Areas of Common 3-Dimensional Shapes	7 MG 2.1 7 AF 3.2	(Algebra script)
	Find the Area of Complex Shapes	7 MG 2.2	(Algebra script)
	Convert From One Unit of Measure to Another	7 MG 1.1	1.4
	Construct and Read Drawings Made to Scale	7 MG 1.2	(Algebra script)
	Congruence of Figures	7 MG 3.4	(Algebra script)
	Identify Elements of 3-Dimensional Objects Including Skew Lines	7 MG 3.6	(Algebra script)

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14 teaching days	Unit 5		Algebra Readiness Text
	Compare and Order Rational Numbers	7 NS 1.5	5.1
	Identify Terminating or Repeating Decimals	7 NS 1.5	3.4
	Differentiate Between Rational and Irrational Numbers	7 NS 1.4	(Algebra Scripts)
	Add and Subtract Rational Numbers	7 NS 1.2	5.2
	Use the Properties of Addition	7 AF 1.3	5.3
	Multiply and Divide Rational Numbers	7 NS 1.2	5.4
	Use the Properties of Multiplication	7 AF 1.3	5.5
14 teaching days	**Unit 6**		**Algebra Readiness Text**
	Use the Distributive Property (algebra tiles, multiple approaches-side by side)	7 AF 1.3	5.6
	Combining Like Terms	7 AF 1.3	5.6
	Write and Evaluate Algebraic Expressions	7 AF 1.1	1.5
	Translating Variable Expressions and Equations	7 AF 1.4	1.5
	Use Algebraic Terminology (such as coefficient etc.)	7 AF 1.4	----

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12 teaching days	Unit 7		Algebra Readiness Text
	Write and Evaluate Powers	7 NS 1.2, 7 AF 2.1	(Algebra script)
	Multiply Powers with the Same Base	7 NS 2.1, A 2.0	6.1
	Divide Powers with the Same Base	7 NS 2.1, A 2.0	6.2
	Use Zero and Negative Exponents	7 NS 2.1	6.3
	Simplify Expressions Involving Exponents	7 NS 2.1	6.4
	Scientific Notation	7 NS 1.1	6.3
	Multiply and Divide Monomials	7 AF 2.2	(Algebra script)
10 teaching days	**Unit 8**		**Algebra Readiness Text**
	Find Square Roots of Perfect Squares	A 2.0; 7 NS 2.4	7.1
	Review Rational and Irrational #s	7 NS 1.5	-----
	Approximate Square Roots	A 2.0	7.2
	Use the Pythagorean Theorem (proof)	7 MG 3.3	7.3
	Use the Converse of the Pythagorean Theorem	7 MG 3.3	7.4
	Box and Whisker Plots, Scatter Plots & Minimums, Quartiles, Medians, and Maximums of Data Sets	7 SDAP 1.1 7 SDAP 1.2 7 SDAP 1.3	(Algebra script)

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14 teaching days	Unit 9		Algebra Readiness Text
	Solve Equations Involving Addition or Subtraction	7 AF 4.1, 7 AF 1.1	8.1
	Solve Equations Involving Multiplication or Division	7 AF 4.1, 7 AF 1.1	8.2
	Solve Two-Step Equations	7 AF 1.1, 7 AF 4.1	8.3
	Solve Equations with Fractions and Decimals	7 AF 1.1, 7 AF 4.1	8.4
	Solve Equations Using the Distributive Property	A 4.0, A 5.0	8.5
	Write and Graph Simple Inequalities	7 AF 1.1	9.1
	Solve Inequalities Involving Addition or Subtraction	7 AF 1.1	9.2
	Solve Inequalities Involving Multiplication or Division	7 AF 1.1	9.3
	Solve Two-Step Inequalities	7 AF 1.1, 7 AF 4.1	9.4
10 teaching days	**Unit 10**		**Algebra Readiness Text**
	Solve Rate Problems	7 AF 4.2	8.6
	Use Unit Analysis	7 MG 1.3	1.4
	Use a Problem Solving Plan	7 AF 4.2, 7 MR 2.5	1.6

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18 teaching days	Unit 11		Algebra Readiness Text
	Graph in the Coordinate Plane	7 AF 3.3	10.1
	Graph Linear Equations in Standard Form	7 AF 3.3	10.2
	Graph Horizontal and Vertical Lines	7 AF 3.3	10.3
	Graph Linear Equations Using Intercepts	7 AF 3.3	10.4
	Find Slopes of Lines	7 AF 3.3	10.5
	Graph Equations in Slope-Intercept Form	7 AF 3.3	10.6
	Solve Direct Variation Problems by Graphing	7 AF 3.4, 7 AF 4.2	10.7
	Solve Direct Variation Problems Using Algebra	7 AF 3.4, 7 AF 4.2	10.8
	Graph Functions of the form $y = nx^2$ & $y = nx^3$	7 AF 3.1	(Algebra script)
5 teaching days	**Unit 12**		**Algebra Readiness Text**
	Interpreting Graphs	7 AF 1.5	(Algebra script)

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