Pre-Algebra (6-8) Timeline & Content Outline
08/09

Quarter	SOL #	Standard	Suggested Timeline
1			
	8.1b & c, 8.3	**Rational Numbers & Consumer Applications** A. Convert Fractions, Decimals, & Percents B. Scientific Notation C. Compare & Order Fractions, Decimals, Percents, & Scientific Notation D. Sales Tax, Tip, & Discount E. Balancing a Checkbook	**2 wks.**
	8.1a, 8.2 & 8.5	**Subsets of Real Numbers & Rational Number Operations** A. Rational Number Subsets B. Squares & Square Roots C. Integer Operations D. Properties of Real Numbers E. Order of Operations with All Rational #s	**4 wks.**
	8.4	**Evaluating Expressions** A. Vocabulary (Coefficient, term, etc.) B. Translate Verbal Phrases to Algebraic Expressions C. Simplifying Variable Expressions D. Evaluating Variable Expressions	**2 wks.**
	1st Quarter SOLs	**Review / Remediation / Enrichment**	**1 wk.**
		Total	**9 wks.**
2	**8.15 & 8.17**	**Solving Equations** A. Translate Verbal sentences to Algebraic Equations B. One-Step Equations using All Rational #s C. Two-Step Equations D. Multi-Step Equations (Extension)	**3 wks.**
	8.15	**Solving Inequalities** A. Graphing Inequalities B. Translate Verbal sentences to Algebraic inequalities C. One-Step Inequalities D. Two-Step Inequalities	**1.5 wks.**
	8.3 & 8.17	**Ratios & Proportions** A. Solving Proportions B. Scale Drawings & Similar Figures C. Solve percents D. Word Problems with Real Life Situations (Include Percents)	**2 wks.**
	8.6	**Angles & Angle Pairs** A. Define, Draw, Estimate Measure & Measure B. Vertical, Complementary, & Supplementary	**1.5 wks.**
	2nd Quarter SOLs	**Review / Remediation / Enrichment**	**1 wk.**
		Total	**9 wks.**

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3	**8.10**	**Pythagorean Theorem**
		  A. Verifying the Pythagorean Theorem
		  B. Finding the Missing Length
			1.5 wks.

	8.8	**Transformations**
		  A. Translations, Reflections, Rotations, &
		     Dilations
		  A. Plotting Transformations
			1 wk.

	8.7, 8.9 & 8.17	**3-D Models, Surface Area, and Volume**
		  A. Base Plan, Front, Side, & Top Views
		  B. Surface Area of Prisms, Pyramids, Cylinders,
		     & Cones
		  C. Volume of Prisms, Pyramids, Cylinders,
		     & Cones
			3 wks.

	8.12 & 8.13	**Statistical Data & Representation**
		  A. Measures of Central Tendency (not an SOL)
		  B. Analyze, Display, & Interpret Tables, Charts,
		     & Graphs
		  C. Matrices
			2.5 wks.

	3rd Quarter SOLs	**Review / Remediation / Enrichment**	**1 wk.**
		Total	**9 wks.**
4	**8.11**	**Probability** A. Analyze Games and make predictions	**1.5 wks.**

	8.14 & 8.18	**Relations & Functions**
		  A. Vocabulary (domain, range, etc.)
		  B. Writing a Rule from a Table of Values
		  C. Relations & Functions using Tables, Graphs, and
		     Rules
			2 wks.

	8.16	**Linear Equations/Functions**
		  A. Graphing Linear Equations with Two
		     Variables using a Table of Values
			3 wks.

	All Eighth Grade SOLs	**SOL Review/Testing**	**2.5wks.**
		Total	**9 wks**