

**2010 – 2011 Merced City School District
7th Grade Math Pacing Guide**

Quarter 1	EXT – Optional preparatory lessons	PREP – Optional preparatory lessons, previous year’s standards
Chapter 1	Principals of Algebra	(Standards in Bold are Key)
1-1	Evaluating Algebraic Expressions	AF 1.2 (1), AF 1.4 (1/3)
1-2	Writing Algebraic Expressions	AF 1.1 (1)
1-3	Integers and Absolute Value	NS 2.5 (2)
1-4	Adding Integers	NS 1.2 (4), AF 1.3 (5)
1-5	Subtracting Integers	NS 1.2 (4), NS 2.5 (2)
1-6	Multiplying and Dividing Integers	NS 1.2 (4)
1-7	Solving Equations by Adding or Subtracting	Prep AF 4.0 , AF 1.4 (1/3)
1-8	Solving Equations by Multiplying or Dividing	Prep AF 4.0
1-9	Solving Two-Step Equations	AF 4.1 (5)
Chapter 2	Rational Numbers	
2-1	Rational Numbers	NS 1.5 (1) , NS 1.3 (1)
2-2	Comparing & Ordering Rational Numbers	NS 1.1 (1)
2-3	Adding & Subtracting Rational Numbers	NS 1.2 (4)
2-4	Multiplying Rational Numbers	NS 1.2 (4)
2-5	Dividing Rational Numbers	NS 1.2 (4), AF 1.3 (5)
2-6	Adding & Subtracting w/Unlike Denominators	NS 1.2 (4), NS 2.2 (1)
2-7 (PREP)	One-Step Equations w/Rational Numbers	AF 4.0
2-8 (PREP)	Two-Step Equations w/Rational Numbers	AF 4.1 (5)
Chapter 3	Multi-Step Equations & Inequalities	
3-1	Properties of Rational Numbers	AF 1.3 (5)
3-2	Simplifying Algebraic Expressions	AF 1.3 (5)
3-3 (EXT)	Solving Multi-Step Equations	Ext AF 4.1 (5)
3-4 (EXT)	Solving Equations w/Variables on Both Sides	Ext AF 4.1 (5)
3-5	Inequalities	AF 1.1 (1)
3-6	Solving Inequalities by Adding or Subtracting	AF 4.0
3-7	Solving Inequalities by Multiplying or Dividing	AF 4.0
3-8	Solving Two-Step Equations	AF 4.1 (5)
11-2	Mean, Median, Mode, and Range	SDAP 1.3 (3)
District Progress Assessment 1		August 23-27
End of Quarter 1		October 15
Quarter 2		
Chapter 4	Exponents and Roots	<i>(Standards in Bold are Key)</i>
4-1	Exponents	AF 2.1 (1)
4-2	Integer Exponents	NS 2.1 (1), AF 2.1 (1)
4-3	Properties of Exponents	NS 2.1 (1), NS 2.3 (3)
4-4	Multiplying & Dividing Monomials	AF 2.2 (1)
4-5	Scientific Notation	NS 1.1 (1)
4-6	Squares & Square Roots	NS 2.4 (1)
4-7	Estimating Square Roots	NS 2.4 (1)
4-8	The Real Numbers	NS 1.4 (1)
4-9	The Pythagorean Theorem	MG 3.3 (4)
Chapter 5	Rational Numbers	
5-1	Ratios	Prep MG 1.1 (2/3)
5-2	Rates and Unit Rates	MG 1.3 (3)
5-3	Proportions	AF 4.2 (5)

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5-4	Dimensional Analysis	MG 1.3 (3)
5-5	Similar Figures	MG 1.2 (1/3)
5-6	Indirect Measurement	MG 1.2 (1/3)
5-7	Scale Drawings & Scale Models	MG 1.2 (1/3)
Chapter 6	Percents	
6-1	Relating Fractions, Decimals, & Percents	NS 1.3 (1)
6-2	Estimating w/Percents	NS 1.3 (1)
6-3	Finding Percents	NS 1.3 (1)
6-4	Finding a Number When the Percent is Known	NS 1.3 (1)
6-5	Applying Percent of Increases & Decreases	NS 1.6 (1), NS 1.7 (5)
6-6	Commission, Sales Tax, & Profit	NS 1.7 (5)
6-7	Applying Simple & Compound Interest	NS 1.7 (5)
District Progress Assessment 2		November 12-18
End of Quarter 2		January 7
Quarter 3		
Chapter 7	Graphs and Functions	
7-1	The Coordinate Plane	Prep AF 3.3
7-2	Functions	Prep AF 3.3
7-3	Graphing Linear Functions	AF 3.3 (2)
7-4	Graphing Quadratic Functions	AF 3.1 (2/3)
7-5	Cubic Functions	AF 3.1 (2/3)
7-6	Rate of Change and Slope	AF 3.3 (2)
7-7	Finding the Slope of a Line	AF 3.4 (2)
7-8	Interpreting Graphs	AF 1.5 (2/3)
7-9	Direct Variation	AF 4.2 (5)
Chapter 8	Foundations of Geometry	
8-1 PREP	Points, Lines, Planes, and Angles	Prep MG 3.1 (1/3)
8-2	Geometric Relationships	MG 3.6 (1)
8-3 PREP	Angle Relationships	MG 2.2 (1/3)
8-4	Triangles	MG 3.3 (4)
8-5 PREP	Coordinate Geometry	MG 3.2 (1/3)
8-6	Congruent Polygons	MG 3.4 (2)
8-7	Transformations	MG 3.2 (1/3)
8-8	Tessellations	Ext MG 3.2 (1/3)
Chapter 9	Two-Dimensional Geometry	
9-1	Perimeter and Area of Parallelograms	MG 2.1 (1/3)
9-2	Perimeter & Area of Triangles & Trapezoids	MG 2.1 (1/3)
9-3	Circles	MG 3.1 (1/3)
9-4	Circumference and Area	MG 2.1 (1/3)
9-5	Area of Composite Figures	MG 2.2 (1/3)
9-6	Area of Irregular Figures	MG 2.2 (1/3)
District Progress Assessment 3		Mar. 10-16
End of Quarter 3		Mar. 18
Quarter 4		
Chapter 10	Three-Dimensional Figures	
10-1 (PREP)	Three-Dimensional Figures	Prep MG 2.1 (1/3)
10-2	Volume of Prisms and Cylinders	MG 2.1 (1/3)
10-3	Volume of Pyramids and Cones	Ext MG 2.1 (1/3)

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10-4	Surface Area of Prisms and Cylinders	MG 2.1 (1/3)
10-5	Surface Area of Pyramids & Cones	Ext MG 2.1 (1/3)
10-6	Spheres	Ext MG 2.1 (1/3)
10-7	Scaling Three-Dimensional Figures	MG 2.3 (1/3)
Review	CST Review	
Chapter 12	Polynomials	
12-1 (PREP 8 TH)	Polynomials	Alg I 10.0
12-2 (PREP 8 TH)	Simplifying Polynomials	Alg I 10.0
12-3 (PREP 8 TH)	Adding Polynomials	Alg I 10.0
12-4 (PREP 8 TH)	Subtracting Polynomials	Alg I 10.0
12-5 (PREP 8 TH)	Multiplying Polynomials by Monomials	Alg I 10.0
12-6 (PREP 8 TH)	Multiplying Binomials	Alg I 10.0
CST		May 2-May 10
End of Quarter 4		June 3