



# Gulfport School District

## HIGH SCHOOL PACING GUIDE

### Transition Algebra

QTR	COMPETENCY/OBJECTIVES
<b>NUMBER AND OPERATIONS</b>	
<b>1. Understand relationships between numbers and their properties and perform operations fluently.</b>	
1.1	a. Apply properties of real numbers to simplify algebraic expressions, including polynomials. <b>Also use order of operations.</b> (DOK 1) Division of monomials will occur in 2.1.
1.1	b. Use matrices to solve mathematical situations and contextual problems. (DOK 2)
<b>ALGEBRA</b>	
<b>2. Understand, represent and analyze patterns, relations and functions.</b>	
1.1	a. Solve, check and graph multi-step linear equations and inequalities in one variable, including rational coefficients in mathematical and real-world situations. (DOK 2)
1.2	b. Solve and graph absolute value equations and inequalities in one variable. (DOK 2)
2.1	g. Add, subtract, multiply, and divide polynomial expressions. (DOK 1) <ul style="list-style-type: none"> <li>• <b>GSD 1:</b> Classify and determine degree of a polynomial and arrange polynomials in ascending or descending order of a variable. (DOK 1)</li> </ul>
2.2	h. Factor polynomials by using Greatest Common Factor (GCF) and factor quadratics that have only rational roots. (DOK 1)
2.2	j. Justify why some polynomials are prime over the rational number system. (DOK 2)
<b>MEASUREMENT</b>	
<b>4. Demonstrate and apply various formulas in problem-solving situations.</b>	
2.1	a. Solve real-world problems involving formulas for perimeter, area, distance, <b>circumference, volume, temperature</b> and rate. (DOK 2)
2.1	c. Represent polynomial operations with area models. (DOK 2)
<b>GSD Objectives</b>	
1.1	a. Compare and contrast the subsets of real numbers. (DOK 1)      TA 1a
1.2	c. Express, interpret, and compute numbers using scientific notation in meaningful context. (DOK 1)      TA 1c
2.2	d. Apply the concept of Greatest Common Factor (GCF) and Least Common Multiple (LCM) to monomials with variables. (DOK 2)      TA 1d
1.2	a. Given a literal equation, solve for a specified variable of degree one. (DOK 1) TA2a
1.2	j. Apply ratios and use proportional reasoning to solve real-world algebraic problems. (DOK 2)      TA 2j



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	<b>GSD Objectives (continued)</b>
1.2	b. Apply proportional reasoning to determine similar figures and find unknown measures. (DOK 2) TA 3b
2.1	b. Use a given mean, mode, median, and range to summarize and compare data sets including investigation of the different effects that change in data have on these measures of central tendency, and select the appropriate measures of central tendency for a given purpose. (DOK 2) TA 5b

1.1 indicates the first 4.5 weeks of the first 9 weeks test.  
1.1 and 1.2 combined indicate a comprehensive 1<sup>st</sup> 9 weeks test.  
2.1 indicates the first 4.5 weeks of the second 9 weeks test.  
2.1 and 2.2 combined indicate a comprehensive 2<sup>nd</sup> 9 weeks test.