

Last Name: _____ **First Name:** _____ **Period:** _____

Gateway Quiz Chart: Calculus requires that you to use the skills you learned in Pre-Algebra, Algebra 1, Algebra 2, and Geometry. You will take a series of small quizzes to see if there are any areas where you are lacking. If you make a 70 or higher on the Pre-Quiz, you are done with that topic. Otherwise, you will do a practice set of problems and take another quiz; if you score an 80 or better on that quiz, you can move on to the next topic, if your score is below 80 you will practice some more problems and retake the quiz until you are able to display mastery of that topic. You will have a zero until you pass the quiz, then it will be changed to a "100". This first set of skills is all from Algebra 1.

Topic	Algebraic Expressions	Simplifying Exponents	Greatest Common Factor	Multiplying Polynomials	Factoring Trinomials
Example(s)	$x(x + 2) - 5x + (-3)$ $2z(y - z) + 3yz$	$a^{-3}b^6c^4$ $(a^2b^4c)^{-3}$	$2x^2y; 6xy^4$ $3x^5; 15x; 21$	$2x(x + 5y)$ $(3t - 5)(2 + 4t)$ $(2x + 3y)^2$	$x^2 - 3x - 10$ $2z^2 - 11z + 5$
Pre-Quiz					
Practice					
Quiz					
Practice					
Quiz					
Practice					
Quiz					

Completed by Friday January 31

Topic	Factoring Special Case Polynomials	Simplifying Rational Expressions	Multiplying & Dividing Rational Expressions	Adding & Subtracting Rational Expressions
Example(s)	$t^3 + 27$ $64x^2 - 16y^2$	$\frac{y^2 + 3y - 10}{2y^2 - 50}$	$\frac{y^2 + 3y - 10}{2y^2 - 50} \div \frac{y - 2}{2y + 10}$	$\frac{y^2 + 3y - 10}{2y^2 - 50} + \frac{y - 2}{2y + 10}$
Pre-Quiz				
Practice				
Quiz				
Practice				
Quiz				
Practice				
Quiz				

Completed by Wednesday February 12

Topic	Linear Equations	Applying Linear Equations	Systems of Linear Equations	Quadratic Equations
Example(s)	Put $2x + 3y = -12$ in slope intercept form. What is the slope of $2x + 3y = -12$?	Coach T is printing up shirts to raise money for the soccer time. There is a \$100 design fee, then each shirt cost him \$8, he is selling the shirts for \$15 a piece. How many will he have to sell to a) break even, b) raise \$500 for the team.	$x - y = 5$ $2x + y = 16$	Solve by factoring or using the quadratic formula: $0 = x^2 - 4x - 21$
Pre-Quiz				
Practice				
Quiz				
Practice				
Quiz				
Practice				
Quiz				