

**Performance Standards
Pre-Algebra
2005-2006**

Name _____

Standards					
14.0 Linear Relationships					
14.1 Represent the relationships among variables in a variety of ways.					
14.2 Determine an appropriate range of values for independent and dependent variables.					
14.3 Solve linear equations.					
14.4 Find the slope of a line from a graph, a table, or an equation.					
14.5 Find the y-intercept of a linear equation from its table, graph, or equation.					
14.6 Write a linear equation given the slope and y-intercept.					
14.7 Find a solution common to two linear equations by graphing or creating tables.					
16.0 Number Sense					
16.1 Read, write, and interpret the large numbers that occur in real-life measurements.					
16.2 Review the concepts of place value as it relates to reading, writing, and using large numbers.					
16.3 Review and extend the use of exponents.					
16.4 Choose sensible ways of comparing counts and measurements.					
17.0 Relations					
17.1 Collect data and record in tables.					
17.2 Construct coordinate graphs to represent data.					
17.3 Make predictions from data tables or graphs.					
17.4 Use patterns in data to find equations that model relationships between variables.					
17.5 Distinguish between linear and nonlinear relationships.					
17.6 Identify inverse relationships and describe their characteristics.					
17.7 Use intuitive ideas about rates of change to sketch graphs or to create situations that fit given graphs.					
18.0 Real Numbers					
18.1 Extend understanding of number systems to include irrational numbers.					
18.2 Locate irrational numbers on the number line.					
18.3 Represent decimals as fractions and fractions as decimals.					
18.4 Use the Pythagorean Theorem to solve problems.					
18.5 Use slope to solve problems.					

Standards					
19.0 Expressions and Equations					
19.1 Evaluate expressions by applying the rules of order of operations.					
19.2 Write symbolic sentences that communicate their reasoning.					
19.3 Develop methods for manipulating symbolic expressions.					
19.4 Make sense of symbolic expressions involving addition, subtraction, multiplication, division, and using exponents.					
19.5 Recognize applications of the commutative and distributive properties.					
19.6 Recognize and interpret equivalent expressions.					
19.7 Explain the reasoning underlying the solution of linear equations.					
19.8 Apply the properties for manipulating expressions to solve linear equations.					
20.0 Transformations					
20.1 Recognize and describe symmetries of figures.					
20.2 Use technology to examine symmetries and transformations.					
20.3 Create figures with specified symmetries.					
20.4 Perform transformations of figures, including reflections, translations, and rotations.					
20.5 Give precise directions in mathematics for performing reflections, rotations, and translations.					
20.6 Write coordinate rules for specifying the image of a general point under particular transformations.					
20.7 Find single transformations that will produce the same result as a combination of transformations.					
20.8 Use transformation to describe motions, patterns, and designs in the real-world.					