

**Performance Standards
M/J Mathematics 2
2005-2006**

Name _____

Standards					
9.0 Patterns and Functions					
9.1 Sketch coordinate graphs to show relationship between two variables.					
9.2 Describe regular or predictable change in data from given patterns.					
9.3 Select the appropriate range of values for given variables.					
9.4 Create tables, graphs, and simple symbolic rules that describe the patterns of change.					
9.5 Describe relationships among forms of data representation.					
9.6 Make decisions using tables, graphs, and rules.					
10.0 Similarity					
10.1 Identify similar figures visually and by comparing sides and angles.					
10.2 Recognize that lengths between similar figures change by a constant scale factor.					
10.3 Build larger or smaller similar shapes from copies of a basic shape.					
10.4 Divide a shape into smaller, similar shapes.					
10.5 Describe the relationship between similarity and equivalent fractions.					
10.6 Describe the effect of scale factor on length ratios and area ratios.					
10.7 Determine and use scale factors to find unknown lengths.					
10.8 Use the concept of similarity to solve real-world problems.					
10.9 Use geometry software to explore similarity and transformations.					
10.10 Make connections between algebra and geometry.					
11.0 Ratio, Proportion, and Percent					
11.1 Demonstrate the use of the term 'ratio', 'proportion', and 'percent' to ask comparison questions.					
11.2 Find equivalent ratios.					
11.3 Represent data in tables and graphs.					
11.4 Set up and solve proportions that arise in applications.					
11.5 Look for patterns in tables that will allow predictions to be made beyond the tables.					
12.0 Integers					
12.1 Represent integers on the number line.					
12.2 Model situations with integers.					

Standards					
12.3 Compare integers using $<$, $=$, and $>$ symbols.					
12.4 Develop strategies for adding, subtracting, multiplying, and dividing integers.					
12.5 Use integers to solve problems.					
12.6 Find inverses for given integers.					
12.7 Sketch coordinate graphs in four quadrants.					
13.0 Volume and Surface Area					
13.1 Conceptualize volume as a measure of <i>filling</i> an object.					
13.2 Conceptualize surface area as a measure of <i>wrapping</i> an object.					
13.3 Find volumes and surface areas for rectangular prisms.					
13.4 Find volumes and surface areas for cylinders.					
13.5 Reason about problems involving the surface areas and volumes of rectangular prisms, cylinders, cones, and spheres.					
15.0 Probability and Expected Values					
15.1 Review the understanding of experimental and theoretical probabilities.					
15.2 Make the distinction between single, specific outcomes and sets of outcomes that comprise an event.					
15.3 Analyze situations involving independent events.					
15.4 Analyze situations involving dependent events.					
15.5 Use probability and equivalent fractions to find expected values.					
15.6 Develop a variety of strategies for analyzing probabilities.					
15.7 Determine the expected value of a chance situation.					