MATHEMATICS

Algebra and Functions

Grade 6		
1. Students write verbal expressions and sentences as algebraic expressions and equations; they evaluate algebraic expressions, solve simple linear equations and graph and interpret their results. 6.1.1 Write and solve one-step linear equations in one variable 6.1.2 Write and evaluate an algebraic expression for a given situation using up to three variables 6.1.3 Apply algebraic order of operations and the commutative, associative and distributive properties to evaluate expressions and justify each step in the process 6.1.4 Solve problems using correct order of operations manually and by using a scientific calculator	2. Students analyze and use tables, graphs and rules to solve problems involving rates and proportions. 6.2.1 Convert from one unit of measurement to another (e.g., from feet to miles, from centimeters to inches) 6.2.2 Demonstrate understanding that rate is a measure of one quantity per unit value of another quantity 6.2.3 Solve problems involving rates, average speed, distance and time	3. Students investigate geometric patterns and describe them algebraically. 6.3.1 Use variables in expressions describing geometric quantities (e.g., P = 2w + 2l, A = 1/2 bh, C = d), which give the perimeter of a rectangle, area of a triangle, and circumference of a circle, respectively 6.3.2 Express simple relationships arising from geometry in symbolic form