

SUBJECT	Algebra I	Geometry	Math of Models	Algebra II	Pre-Calculus
Ideas students are learning	Foundations for Functions, Solving Equations, Proportions and Similar Figures	Foundations for Geometry, Reasoning, Coordinate Geometry	Proportions and Linear Equations	Foundations of Functions, Linear Functions, Parent Functions and Transformations, Inverses	Linear and Discrete Functions, Arithmetic Sequences and Series, Geometric Sequences and Series
Skills	Recognize a function, solve one-variable equations, use proportions to solve problems and similar figures	Basic characteristics of line segments, angles, inductive/deductive reasoning, Pythagorean Them., distance formula	Using the calculator, direct proportions, functional relationships, linear functions and rate of change, solve equations	Understand functions, domain and range, linear models from data, transformation of parent functions, find inverses	Represent an arithmetic sequence symbolically, graphically and numerically, represent patterns using geometric sequences/series
Work and assignments to look for	Checking Group Work, Domain and Range, Intro. To Functions, Graphing for All Students	Shapes in Life Project, The Pool Problem, Whitebeard's Treasure	Linear Functions, Rates of Change, 24 Game Problems, Calculator Unit Worksheets	Compare/Contrast Func and Non-Func, Functions, Functions Everywhere! What We Look Like, Extracurr. Activity	DVD Promotions #10 or Arithmetic Alkanes #5, She Sells Sea Shells #11, The Old Square Craft
Questions Parents Can Ask	What is a function? What are domain and range? What is the diff. between an algebraic expression and an equation?	Why are point, line and plane undefined terms? How is logical reasoning used to develop and prove conjectures?	In what ways can a functional relationship be represented?	Why and how are relations and functions represented in multiple ways?	How can arithmetic and geometric series and sequences be used to solve real world problems?
Special Notes					