

SUBJECT	Algebra I	Geometry	Math of Models	Algebra II	Pre-Calculus
Ideas students are learning	Constant rate of change, multiple representations, Characteristics of Linear Functions and Modeling, Pythagorean Theorem	Line Relationships, Introduction to Triangles and Proof, Triangle Relationships	Linear Function Properties	Equations and Inequalities, Exponential Functions, Exponential Growth and Decay, Logarithmic Functions	Rational/Exponential/Log functions, Discontinuous and Asymptotic Behavior, Limits, Growth/Decay, Log Properties, Composition
Skills	Write function rules using multiple representations; develop, interpret slope; identify slope, y-intercept, Use Pythagorean Thrm	Explore parallel and perpendicular lines, triangle congruence, Pythagorean Thrm, 45-45-90 and 30-60-90 triangles	Linear regressions, profit equations, role of m and b, rate of change	Solve absolute value equations and inequalities, model exponential growth and decay	Apply synthetic and long division; Develop, determine properties, behavior of Rational, Exponential, Log Fntns
Work and assignments to look for	Mosaics; The Y-Intercept, Reflect & Apply; Which Is Linear?; Pythagorean Theorem Assignment	Discovering Geometry page 167, Symmetry in Motion, SpringBoard: Go With the Flow and What's the Point	Stacks of Cups Sections I and II	SpringBoard: Absolute Value and Piecewise-Defined Functions, Sizing Up the Situation, Intro to Log Functions	Taneytown Reunion; Rational Fntns: Long Run Behavior; Pennsylvania Lottery; Check for Understanding Act 2.7, 2.8
Questions Parents Can Ask	What makes a relationship Linear? What does rate of change represent? How are sides related in right triangles?	What is the relationship between parallel lines?, How can specific measurements of triangles be found?	How can you find an equation from a set of data using regression? What is the role of m and b in multiple representations?	How are exponential and logarithmic functions and their graphs related?	How can rational functions model real world situations? How are exponential and log functions related?
Special Notes					