

Mathematics Year at a Glance

Course	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Algebra 1	<ul style="list-style-type: none"> - Order of Operations - Evaluating Expressions - Polynomials - Solving Equations 	<ul style="list-style-type: none"> - Inequalities (1 variable) - Functions - Linear Equations - Linear Inequalities 	<ul style="list-style-type: none"> - Systems of Equations - Systems of Linear Inequalities - Quadratics (Factoring) 	<ul style="list-style-type: none"> - Quadratics (Solving & Graphing) - Transformations
Algebra 2	<ul style="list-style-type: none"> - Functions - Quadratics 	<ul style="list-style-type: none"> - Rational Expressions - Rational Equations - Polynomials 	<ul style="list-style-type: none"> - Rational Exponents - Radicals - Exponential Functions - Logarithmic Functions 	<ul style="list-style-type: none"> - Systems of Equations - Trigonometry
AP Calculus	<ul style="list-style-type: none"> - Limits - Derivatives Methods 	<ul style="list-style-type: none"> - Applications of Derivatives - Differential Equations 	<ul style="list-style-type: none"> - Integrals - Applications of Integrals 	<ul style="list-style-type: none"> - AP Test - Final Project TBD
Business Math	<p>Metrics</p> <ul style="list-style-type: none"> - Generations - Climate - Brands - Innovation - Performance <p>Case Study: Economic and Trade Impacts, Debt, Deficit, Trade Balance, GDP, GDP Per Capita</p>	<p>Globalization</p> <ul style="list-style-type: none"> - Culture - Currency - Date and Time <p>Normalization</p> <ul style="list-style-type: none"> - Schedules - Measurements - Product Packaging and Distribution <p>Case Study: Black Friday/Cyber Monday</p>	<p>Sales and Marketing</p> <ul style="list-style-type: none"> - Surveys - Forecasts - Market Share - Social Media - KPIs - Advertising <p>Case Study: SuperBowl</p>	<p>Business Costs</p> <ul style="list-style-type: none"> - Employee - Shipping - Social Media - Retail <p>Case Study: Facebook, Google, Snapchat</p>
Calculus	<ul style="list-style-type: none"> - Functions - Limits 	<ul style="list-style-type: none"> - Derivatives - Derivative Applications 	<ul style="list-style-type: none"> - Derivative Applications - Integrals 	<ul style="list-style-type: none"> - Integrals - Volume
Consumer Math	<ul style="list-style-type: none"> - Sales tax & discounts - Gross pay - Hourly pay - Salary - Commission - Piece-rate, Per-diem, Tips - Net pay (Fed. & state income tax, Social Security & Medicare deductions) 	<ul style="list-style-type: none"> - Banking - Savings (Simple and Compound Interest) - Checking (Electronic Banking, Writing a Check, Debit cards, Deposits/Withdrawals) - Credit cards 	<ul style="list-style-type: none"> - Buying a Car (Buying vs. Leasing) - Buying a House (Down payment, closing costs, calculate loan amount, cash needed, property tax) 	<ul style="list-style-type: none"> - Basics of Insurance (Premium, Deductible, Co-pay, co-insurance) - Different types of insurance available
Geometry	<ul style="list-style-type: none"> - Basics of Geometry - Understanding Angles - Constructions - Linear - Parallel and Perpendicular lines - Reasoning and Proofs 	<ul style="list-style-type: none"> - Rigid Transformations - Triangle Basics - Relationships within Triangles - Triangle Congruence - Right Triangles 	<ul style="list-style-type: none"> - Right Triangle Trig - Quadrilaterals - Dilations - Similarity 	<ul style="list-style-type: none"> - Polygons - Area - Volume - Circles

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Personal Finance	<ul style="list-style-type: none"> - Gross Pay - Net Pay - Intro to Personal Finance - Savings, Checking, Banking 	<ul style="list-style-type: none"> - Budgeting - Debt - Life After High School - Consumer Awareness 	<ul style="list-style-type: none"> - Bargain Shopping - Investing & Retirement - Insurance 	<ul style="list-style-type: none"> - Money & Relationships - Careers & Taxes - Giving
PreCalculus	<ul style="list-style-type: none"> - Right Triangle Trig - Applications of Trig - Circular Trig Functions - Unit Circle 	<ul style="list-style-type: none"> - Graphing Trig Functions - Trig Identities - Solving Advanced Trig Equations - Triangles 	<ul style="list-style-type: none"> - Intro to Functions - Polynomial functions - Exponential and logarithmic functions - Rational functions 	<ul style="list-style-type: none"> - Conic Sections - Discrete Math - Intro to the basics of Calculus - Limits
Probability & Statistics	<ul style="list-style-type: none"> - Introduction to statistics - Descriptive statistics - Probability 	<ul style="list-style-type: none"> - Discrete probability - Normal probability distributions 	<ul style="list-style-type: none"> - Confidence intervals - Hypothesis testing - one and two samples 	<ul style="list-style-type: none"> - Correlation and regression - Chi-square tests and f-distribution
Summit - Algebra 1	<ul style="list-style-type: none"> - One-Variable Statistics 	<ul style="list-style-type: none"> - Linear Equations, Inequalities, & Systems 	<ul style="list-style-type: none"> - Two-variable Statistics - Functions - Introduction to Exponential Functions 	<ul style="list-style-type: none"> - Introduction to Quadratic Functions - Quadratic Equations
Summit - Algebra 2	<ul style="list-style-type: none"> - Sequences and Functions 	<ul style="list-style-type: none"> - Polynomials - Exponential Functions & Equations 	<ul style="list-style-type: none"> - Transformations of Functions 	<ul style="list-style-type: none"> - Trigonometric Functions - Statistical Inferences
Summit - Modeling & Statistical Reasoning	<ul style="list-style-type: none"> - Imprecision - Metrics 	<ul style="list-style-type: none"> - Exploring Models - Constructing Models 	<ul style="list-style-type: none"> - Modeling Likelihood - Modeling Decision Making 	<ul style="list-style-type: none"> - Inference: Evaluating Models