

TRADITIONAL MODEL

7th Grade

Pre-Algebra

Operations with rational numbers

Proportional Reasoning

Expressions and Equations

Basic Geometry and Measurement

Basic Probability

Statistics

8th Grade

Algebra 1

Operations with Real Numbers

Linear Relationships

Polynomials

Bivariate Statistics

Expressions and Equations

9th Grade

Geometry

Algebraic, Spatial & Logical Reasoning

Coordinate Geometry

Proportion and Similarity

Trig Ratios

Measurements of Plane and Solid Figures

Constructions

10th Grade

Algebra 2

Systems of Equations & Inequalities

Complex Numbers

Quadratics

Functions

Coordinate Geometry

Radian Degree Measure

Probability & Statistics

11th Grade

Pre-Calculus

Matrices

Sequences & series

Functions

Unit Circle

Conic Sections

Polar & Parametric Equations

Probability & Statistics

12th Grade

AP Calculus

*****Topics listed in each course are meant to give a general overview of what each course is about
It is not meant to be a comprehensive list of concepts taught in each course



INTERNATIONAL MODEL

	Pre-Algebra	Algebra 1	Geometry	Statistics/Probability	Algebra 2	Trigonometry	Pre-Calculus
7th Grade	Proportional Relationships Operations with Rational Numbers	Expressions and Equations Applying Expressions and Equations	Constructions Angle measure, area, surface area, and volume	Sampling Probability Models			
8th Grade	Proportional Relationships	Irrational Numbers Linear Equations Radical and Integer Exponents	Congruence and similarity Pythagorean Theorem Volume	Bivariate Data	Functions		
9th Grade		Expressions & Equations	Congruence, Proof, and Constructions Coordinate Geometry	Descriptive Statistics	Linear and Exponential Relationships		
9th Grade H							Vectors Matrices
10th Grade			Similarity Right Triangle Trigonometry Proofs Circles with and without Coordinates	Applications of Probability	Rational Exponents Quadratics Polynomials Complex Numbers	Right triangle Trigonometry	
10th Grade H			Tangent Lines	Permutations and combinations Fair decisions			Polynomials and Complex Numbers Fundamental Theorem of Algebra
11th Grade			Geometric Modeling	Normal distribution and population percentages Random Processes Evaluate outcomes of decisions Make inferences and justify conclusions	Series Modeling Functions, equations, and expressions Analyzing Functions Remainder Theorem	Zeros of Polynomials Radian Measure Unit Circle	
11th Grade H				Fair Decisions		Law of Sines Law of Cosines	Polynomials and Complex Numbers Binomial Theorem Fundamental Theorem of Algebra
12th Grade 12th Grade H	Pre-Calculus/Stats/AP Stats/Concurrent AP Calculus/AP Stats/Concurrent						

Some helpful websites:

www.corestandards.org Official Website for the Common Core State Standards

<http://schools.utah.gov/CURR/mathsec/default.aspx> Official Website for the USOE Secondary Math, includes links to the Common Core in Utah

<http://csdmath.weebly.com/index.html> Website for MS teachers as they implement the common core, includes links to 7th and 8th grade scope and sequence, will be making one for high school grades as we implement



CANYONS
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