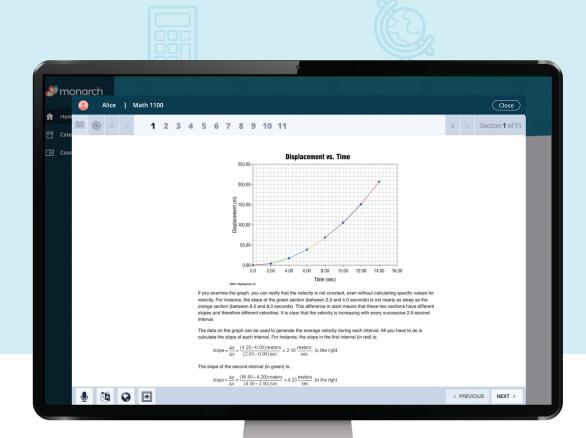






### **BY AOP**



# Math Scope & Sequence



## **MATH**

**MONARCH MATH** provides comprehensive instruction in the major content strands of number skills, geometry, algebra, data analysis, and probability. Beginning with foundational numeracy and arithmetic skills, progressive lessons provide real-life application, develop logic and reasoning, and prepare students for advancement into higher mathematics.

#### 3rd Grade

Whole Numbers & Fractions	
MON300M	3rd Grade Math
Unit 1	Whole Numbers
Unit 2	Number Patterns
Unit 3	Whole Numbers & Fractions
Unit 4	Place Value
Unit 5	Measurement, Shapes, & Review
Unit 6	Multiplication, Addition, & Subtraction
Unit 7	Operations, Likelihood, & Probability
Unit 8	Measurement, Fractions, & Decimals
Unit 9	Review: Multiple Concepts
Unit 10	Basic Math Review

#### 4th Grade

Fractions & Division	
MON400M	4th Grade Math
Unit 1	Number Sense & Place Value
Unit 2	Rounding & Estimation
Unit 3	Whole Numbers & Fractions
Unit 4	Lines & Shapes
Unit 5	Division & Measurement
Unit 6	Multiplication & Fractions
Unit 7	Fractions & Patterns
Unit 8	Division & Fractions
Unit 9	Decimals & Fractions
Unit 10	Graphing & Review

#### 5th Grade

Numerical Literacy & Geometric Concepts	
MON500M	5th Grade Math
Unit 1	Place Value, Addition, & Subtraction
Unit 2	Multiplying Whole Numbers & Decimals
Unit 3	Dividing Whole Numbers & Decimals
Unit 4	Algebra & Graphing
Unit 5	Measurement
Unit 6	Factors & Fractions
Unit 7	Fraction Operations
Unit 8	Data Analysis & Probability
Unit 9	Geometry
Unit 10	Perimeter, Area, & Volume
Unit 11	Course Review & Exam

#### 6th Grade

Fractions, Decimals, & Measurements	
MON600M	6th Grade Math
Unit 1	Whole Numbers & Algebra
Unit 2	Data Analysis
Unit 3	Decimals
Unit 4	Fractions
Unit 5	Fraction Operations
Unit 6	Ratio, Proportion, & Percent
Unit 7	Probability & Geometry
Unit 8	Geometry & Measurement
Unit 9	Integers & Transformations
Unit 10	Equations & Functions
Unit 11	Course Review & Exam

#### 7th Grade

Integers, Ratios, & Basic Geometry	
MON700M	7th Grade Math
Unit 1	Integers
Unit 2	Fractions
Unit 3	Decimals
Unit 4	Patterns & Equations
Unit 5	Ratios & Proportions
Unit 6	Probability & Graphing
Unit 7	Data Analysis
Unit 8	Geometry
Unit 9	Measurement & Area
Unit 10	Surface Area & Volume
Unit 11	Course Review & Exam

#### 8th Grade

Pre-Algebra	
MON800M	Pre-Algebra
Unit 1	The Real Number System
Unit 2	Modeling Problems in Integers
Unit 3	Modeling Problems with Rational Numbers
Unit 4	Proportional Reasoning
Unit 5	More with Functions
Unit 6	Measurement
Unit 7	Plane Geometry
Unit 8	Measures of Solid Figures
Unit 9	Data Analysis
Unit 10	Probability
Unit 11	Course Review & Exam

#### 9th Grade

Algebra I	
мон900м	Algebra I
Unit 1	Foundations of Algebra
Unit 2	Linear Equations
Unit 3	Functions
Unit 4	Inequalities
Unit 5	Linear Systems
Unit 6	Polynomials
Unit 7	Exponential & Radical Functions
Unit 8	Quadratics
Unit 9	Rational Expressions
Unit 10	Probability & Statistics
Unit 11	Final Exam

#### 10th Grade

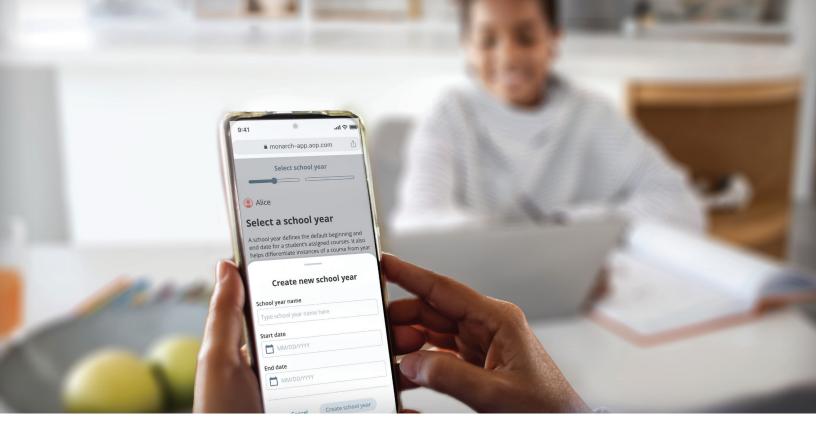
Geometry	
MON1000M	Geometry
Unit 1	Introduction
Unit 2	Logic
Unit 3	Angles & Parallels
Unit 4	Congruent Triangles & Quadrilaterals
Unit 5	Similar Polygons
Unit 6	Semester   Review & Exam
Unit 7	Circles
Unit 8	Area & Volume
Unit 9	Coordinate Geometry
Unit 10	Transformations
Unit 11	Review
Unit 12	Semester II Review & Exam
Unit 13	Final Exam

#### 11th Grade

Algebra II	
MONII00M	Algebra II
Unit 1	Set, Structure, & Function
Unit 2	Numbers, Sentences, & Problems
Unit 3	Linear Equations & Inequalities
Unit 4	Polynomials
Unit 5	Algebraic Fractions
Unit 6	Semester I Review & Exam
Unit 7	Real Numbers
Unit 8	Quadratic Relations & Systems
Unit 9	Exponential Functions
Unit 10	Counting Principles
Unit 11	Review
Unit 12	Semester II Review & Exam
Unit 13	Final Exam

#### 12th Grade

Pre-Calculus	
MON1200M	Pre-Calculus
Unit 1	Relations & Functions
Unit 2	Functions
Unit 3	Trigonometric Functions
Unit 4	Circular Functions & Their Graphs
Unit 5	Identities & Functions of Multiple Angles
Unit 6	Semester I Review & Exam
Unit 7	Application of Trigonometric Functions
Unit 8	Inverse Trigonometric Functions & Polar Coordinates
Unit 9	Quadratic Equations
Unit 10	Counting Principles
Unit 11	Calculus & Review
Unit 12	Semester II Review & Exam
Unit 13	Final Exam



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