

**Tap into  
on-the-GO learning!**

# CALIFORNIA GO MATH!

*Scope and Sequence*  
Grades K–8





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# Counting and Cardinality

● Investigate and Analyze    ◆ Apply and Extend

	K	1	2	3	4	5	6
<b>Counting and Cardinality (CC)</b>							
Compare numbers	●						
Count by ones	●						
Count by tens	●						
Count objects	●						
Count sets of objects	●						
Find how many in all	●						
Use one-to-one correspondence to count	●						
Write numbers	●						

# Number and Operations in Base Ten

● Investigate and Analyze    ◆ Apply and Extend

	K	1	2	3	4	5	6
<b>Number and Operations in Base Ten (NBT)</b>							
<b>Addition</b>							
Add decimals						●	●
Add whole numbers		●	●	●	●		
Addition strategies		●	●	●			
Estimate decimal sums						●	
Estimation in 3-digit addition			●				
Properties of addition		●	●	◆	◆	●	●
Real-world problems						●	
<b>Counting Sequence</b>							
Count backward			●				
Count forward	●	●	●				
Model whole numbers	●	●	●				
Read whole numbers	●	●	●				
Skip count		●	●				
Write whole numbers	●	●	●				
<b>Division</b>							
Divide decimals						●	◆
Divide whole numbers			●			●	◆
Division strategies			●				
Remainders			●				



# Number and Operations in Base Ten

... Continued

● Investigate and Analyze    ♦ Apply and Extend

	K	1	2	3	4	5	6
<b>Multiplication</b>							
Area and array models					•		
Equations					•	♦	♦
Multiples of ten				•			
Multiplication strategies					•		
Multiply decimals						•	♦
Multiply whole numbers					•	•	
Properties of multiplication					•	♦	♦
<b>Place Value of Decimals</b>							
Compare and order decimals						•	
Decimal notation						•	
Read decimals						•	
Round decimals					•	•	
Write decimals in different forms						•	
<b>Place Value of Whole Numbers</b>							
Compare whole numbers		•	•	•	•		
Decompose into tens and ones	•	•					
Expanded form				•	•		
Exponents						•	♦
Make a ten		•					
Model whole numbers	•	•	•				
Order whole numbers					•		
Place-value models	•	•	•				
Powers of ten						•	♦
<b>Subtraction</b>							
Estimate decimal differences						•	
Estimation in 3-digit subtraction			•				
Real-world problems						•	
Subtract decimals						•	
Subtract whole numbers		•	•	•	•		
Subtraction strategies		•	•	•			

# Number and Operations—Fractions

● Investigate and Analyze    ♦ Apply and Extend

	K	1	2	3	4	5	6
<b>Number and Operations—Fractions (NF)</b>							
<b>Addition with Fractions</b>							
Add fractions					•	•	
Add mixed numbers					•	•	
Benchmark fractions						•	
Rename fractions and mixed numbers to add					•	♦	
Visual fraction models					•	♦	
Word problems					•	•	
<b>Decimal Fractions</b>							
Compare decimal fractions					•	•	
Decimal notation					•	•	
Equivalent fractions and decimals					•		
Money and decimals					•		
Place value of decimals					•	•	
Write decimals					•	•	
<b>Division with Fractions</b>							
Divide unit fractions						•	
Fractions as division						•	
Interpret division with fractions						•	
Real-world problems						•	♦
Visual fraction models						•	♦
<b>Fraction Equivalence</b>							
Common denominators					•	♦	
Compare and order fractions				•	•	♦	
Equivalent fractions				•	•	•	
Simplest form					•	♦	
On the number line				•	•	♦	
Use regions				•			
<b>Multiplication with Fractions</b>							
Distributive Property						•	
Find area of a rectangle with fractional measurements						•	
Multiples of unit fractions					•	•	
Multiply fractions					•	•	
Multiply mixed numbers					•	•	

# Number and Operations—Fractions

... Continued

● Investigate and Analyze ◆ Apply and Extend

	K	1	2	3	4	5	6
Scale and multiplication of fractions						•	
Visual fraction models					•	•	
Word problems					•	•	
<b>Read and Write Fractions</b>							
Fractions				•			
Whole numbers as fractions				•			
<b>Subtraction of Fractions</b>							
Estimate differences						•	
Subtract fractions					•	•	
Subtract mixed numbers					•	•	
Subtraction with renaming					•	•	
Visual fraction models					•	•	
Word problems					•	•	
<b>Understand Fractions</b>							
Part of a group				•			
Part of a partitioned whole				•			
On the number line				•			
Unit fractions				•			
Whole numbers and fractions				•			

# Ratios and Proportional Relationships

● Investigate and Analyze ◆ Apply and Extend

	K	1	2	3	4	5	6
<b>Ratios and Proportional Relationships (RP)</b>							
<b>Concept of Ratio</b>							
Fractions and ratio							•
Model ratios							•
Notation for ratio							•
Rate language							•
Write ratios							•
<b>Rate and Ratio Reasoning</b>							
Convert measurements							•
Distance, rate, time formula							•

# Ratios and Proportional Relationships

... Continued

● Investigate and Analyze ◆ Apply and Extend

	K	1	2	3	4	5	6
Equivalent ratios							•
Percent							•
Real-world problems							•
Unit rate							•

# The Number System

● Investigate and Analyze ◆ Apply and Extend

	K	1	2	3	4	5	6
<b>The Number System (NS)</b>							
<b>Addition and Subtraction of Decimals</b>							
Add decimals							•
Subtract decimals							•
<b>Common Factors and Multiples</b>							
Greatest common factor							•
Least common multiple							•
Prime factorization							•
<b>Division with Fractions</b>							
Divide fractions							•
Divide mixed numbers							•
Reciprocal and inverse operations							•
Visual fraction models							•
<b>Division with Whole Numbers and Decimals</b>							
Divide decimals							•
Divide whole numbers							•
<b>Multiplication</b>							
Multiply decimals							•
<b>Rational Numbers</b>							
Absolute value							•
Compare and order rational numbers							•
Find distance							•
Graph on the coordinate plane							•
Negative and positive numbers							•
Opposites							•



# The Number System

... Continued

● Investigate and Analyze    ◆ Apply and Extend

	K	1	2	3	4	5	6
Plot on the number line							•
Real-world problems							•
Reflection on the axes							•

# Operations and Algebraic Thinking

● Investigate and Analyze    ◆ Apply and Extend

	K	1	2	3	4	5	6
<b>Operations and Algebraic Thinking (OA)</b>							
<b>Addition</b>							
Add whole numbers	•	•	•	•			
Addition strategies		•	•				
Additive comparison					•		
Basic facts		•	•	◆			
Decompose numbers	•	•					
Equal symbol	•	•					
Equations		•	•	•	•		
Estimate sums			•	•	◆		
Expressions	•						
Inverse of subtraction	•	•	◆				
Missing addend	•	•	◆				
Model addition	•	•	◆				
Multi-step word problems				•	•		
Plus symbol	•	•					
Real-world problems	•	•	•				
Three addends		•	•				
Word problems		•	•	•			
Write number sentences		•	•				
<b>Division</b>							
Basic facts			•	◆			
Division strategies			•	◆			
Equations			•	•			
Measurement quantities				•			
Model division				•			

# Operations and Algebraic Thinking

... Continued

• Investigate and Analyze    ♦ Apply and Extend

	K	1	2	3	4	5	6
Multi-step word problems					•	♦	
Relationship with multiplication				•	♦		
Remainders					•		
Strategies to divide				•	♦		
Understand division				•	•		
<b>Factors and Multiples</b>							
Common factors					•		♦
Common multiples					•		♦
Divisibility rules					•		
Even and odd numbers					•		
Factors					•		
Multiples					•		
Prime numbers					•		
<b>Multiplication</b>							
Arrays			•	♦			
Basic facts				•	•		
Equal groups			•	•			
Equations				•	•		
Even and odd numbers			•		♦		
Measurement quantities				•			
Model multiplication				•			
Multiplication strategies				•			
Multiplicative comparison					•		
Real-world problems				•	•		
Relationship with division				•			
Strategies to multiply				•			
Understand multiplication			•	•	•		
<b>Number and Shape Patterns</b>							
Even and odd numbers				•	•		
Function tables				•	•	♦	
Generate two numerical patterns						•	
Graph two numerical patterns on the coordinate plane						•	
Identify, generate, explain number patterns				•	•		
Patterns on facts tables				•			

# Operations and Algebraic Thinking

... Continued

● Investigate and Analyze    ♦ Apply and Extend

	K	1	2	3	4	5	6
Skip-counting patterns				●			
Write a rule					●	♦	
<b>Numerical Expressions</b>							
Evaluate numerical expressions						●	
Interpret numerical expressions						●	
Write numerical expressions						●	
<b>Properties of Operations</b>							
Additive Identity Property		●	●	●	●	♦	♦
Associative Property of Addition		●	●	●	●	♦	♦
Associative Property of Multiplication				●	●	♦	♦
Commutative Property of Addition		●	●	●	●	♦	♦
Commutative Property of Multiplication				●	●	♦	♦
Distributive Property				●	●	♦	♦
Identity Property of Multiplication				●	●	♦	♦
Zero Property of Multiplication				●	●	♦	♦
<b>Subtraction</b>							
Basic facts		●	●	♦			
Decompose numbers	●	♦					
Equal symbol	●	♦					
Equations		●	●	●	●		
Estimate differences				●	♦		
Expressions	●	♦					
Inverse of addition	●	●					
Minus symbol	●	●					
Missing numbers in subtraction	●	●					
Model subtraction	●	●					
Multi-step word problems				●	●		
Real-world problems	●	●	●	●	●		
Subtract whole numbers	●	●	●	●			
Subtract zero		●					
Subtraction strategies		●	●				
Word problems		●	●	●			
Write number sentences		●	●				

# Expressions and Equations

• Investigate and Analyze   ♦ Apply and Extend

	K	1	2	3	4	5	6
<b>Expressions and Equations (EE)</b>							
<b>Algebraic Expressions</b>							
Equivalent algebraic expressions							•
Evaluate algebraic expressions							•
Identify parts of expressions							•
Model algebraic expressions							•
Write algebraic expressions							•
<b>Dependent and Independent Variables</b>							
Analyze relationships between variables							•
Express relationships between variables							•
Graph relationships							•
Linear equations							•
Translate between equations and table values							•
<b>Equations</b>							
Linear equations on the coordinate plane							•
Meaning of equality							•
Model equations							•
Solve one-variable equations							•
Symbols showing relations							•
<b>Inequalities</b>							
Graph inequalities with one variable							•
Identify solutions							•
Solutions of inequalities on a number line							•
Solutions of inequalities using substitution							•
Symbols showing relations							•
Write inequalities							•
<b>Numerical Expressions</b>							
Write numerical expressions							•
Evaluate numerical expressions							•



# Measurement and Data

● Investigate and Analyze ◆ Apply and Extend

	K	1	2	3	4	5	6
<b>Measurement and Data (MD)</b>							
<b>MEASUREMENT</b>							
<b>Length and Distance</b>							
Add lengths			●				
Benchmarks and relative size					●		
Choose appropriate tool and unit		●	●				
Compare lengths	●	●	●				
Convert units			●			●	
Customary system			●		●		
Estimate length			●		●		
Measure length		●	●				
Measurements on a line plot			●				
Metric system			●		●		
Order lengths		●	●				
Real-world problems	●	●			●		
Subtract lengths			●				
Transitive property		●					
<b>Liquid Volume and Capacity</b>							
Benchmarks and relative size					●		
Convert units						●	
Estimate liquid volume				●	●		
Measure liquid volume				●			
Word problems				●	●	●	
<b>Mass and Weight</b>							
Benchmarks and relative size					●		
Compare weights	●						
Choose the appropriate unit				●			
Convert units						●	
Estimate mass				●	●		
Measure mass				●			
Order weights	●						
Word problems				●	●	●	
<b>Money</b>							
Count coins and bills			●				

# Measurement and Data

... Continued

● Investigate and Analyze    ◆ Apply and Extend

	K	1	2	3	4	5	6
Decimal point in money amounts			●				
Decimals and money					●		
Fractions and money					●		
Identify coins and bills			●				
Operations with money					●		
Real-world problems			●		●		
Symbolic notation			●				
<b>Time</b>							
A.M. and P.M.			●	●			
Clocks		●	●	●			
Convert units						●	
Elapsed time					●	●	
Equivalent units			●				
Fractions and time					●		
Real-world problems		●	●	●	●	●	
Tell time		●	●	●			
Units of time			●		●		
<b>DATA</b>							
Classify and count objects	●						
<b>Interpret data</b>							
Bar graph		●	●	●			
Compare data				●	●	◆	◆
Draw conclusions			●	●	●		
Frequency table				●	◆	◆	◆
Line plot			●	●	●	●	◆
Measurement data on a line plot			●	●	●	●	
Picture graph		●	●	●			
Real-world problems		●	●	●	●	●	◆
Tally chart		●	●	●			
<b>Represent data</b>							
Bar graph		●	●	●			
Frequency table				●	◆	◆	◆
Line plot			●	●	●	●	
Measurement data on a line plot			●	●	●	●	

# Measurement and Data

... Continued

● Investigate and Analyze ◆ Apply and Extend

	K	1	2	3	4	5	6
Picture graph		●	●	●			
Tally chart		●	●	●			
<b>GEOMETRIC MEASUREMENT</b>							
<b>Angles</b>							
Concept of angle					●		
Related to circles					●		
Measure angles with a protractor					●		
Measure angles using an equation					●		
Sketch angles					●		
<b>Area</b>							
Concept of area				●			
Find area of a complex figure				●	●		
Find area of a rectangle				●	●		
Formula for area					●		
Real-world problems				●	●		
Relate area to multiplication and division				●			
Relate area to perimeter				●			
Units of area					●		
<b>Perimeter</b>							
Compare area and perimeter				●			
Find perimeter of a polygon				●			
Find perimeter of a rectangle				●	●		
Formula for perimeter					●		
Linear and area measures				●			
Real-world problems				●	●		
Relate area to perimeter				●			
<b>Volume</b>							
Attribute in solid figures						●	
Compare volumes						●	
Estimate volume						●	
Measure volume						●	
Real-world problems						●	
Volume as additive						●	

	K	1	2	3	4	5	6
<b>Geometry (G)</b>							
<b>Area</b>							
Changing dimensions and area							•
Draw polygons on the coordinate plane							•
Find area of a composite figure							•
Find area of a parallelogram							•
Find area of a polygon							•
Find area of a trapezoid							•
Find area of a triangle							•
Formulas for area							•
Real-world problems							•
<b>Coordinate Plane</b>							
Define a coordinate system						•	
Graph in the first quadrant						•	
Ordered pairs						•	
Real-world problems						•	
<b>Surface Area</b>							
Find surface area of a cube							•
Find surface area of a prism							•
Find surface area of a pyramid							•
Nets							•
Real-world problems							•
<b>Three-dimensional Shapes</b>							
Attributes of three-dimensional shapes	•	•	•				
Classify shapes		•					
Compose and decompose shapes	•	•	•				
Identify and describe shapes	•	•	•				
Identify shapes in the environment	•						
Make and draw shapes		•	•				
Sort shapes	•	•	•				
<b>Two-dimensional Shapes</b>							
Angles				•	•	•	
Attributes of two-dimensional shapes	•	•	•	•			
Classify angles					•		



# Geometry

... Continued

• Investigate and Analyze    ♦ Apply and Extend

	K	1	2	3	4	5	6
Classify polygons						•	
Classify quadrilaterals					•	•	
Classify shapes		•	•	•			
Classify triangles by angles					•	•	
Classify triangles by sides					•		
Compose and decompose shapes	•	•	•	•			
Congruency						•	
Equal parts			•				
Identify and describe shapes	•	•	•	•			
Identify shapes in the environment	•						
Line symmetry					•		
Lines					•	♦	
Model and draw shapes	•	•	•	•			
Partition shapes		•	•	•			
Real-world problems						•	
Sort shapes	•	•	•				
Triangles				•	•		
<b>Volume</b>							
Formula for volume							•
Fractional side lengths and volume							•
Real-world problems							•
Rectangular prism							•
Use cubes to find volume							•

# Statistics and Probability

• Investigate and Analyze    ♦ Apply and Extend

	K	1	2	3	4	5	6
<b>Statistics and Probability (SP)</b>							
<b>Display Data</b>							
Box plot							•
Dot plot							•
Frequency table							•
Histogram							•
<b>Statistical Questions</b>							
Describe data collections							•
Distribution of data							•
Measure of center							•
Measure of variation							•
Recognize statistical questions							•
<b>Summarize Data</b>							
Box plot							•
Describe data collections							•
Describe distributions							•
Dot plot							•
Effects of outliers							•
Frequency table							•
Histogram							•
Interpret data displays							•
Mean as fair share and balance point							•
Measures of central tendency							•
Measures of variability							•

# Ratios and Proportional Relationships

● Investigate and Analyze    ◆ Apply and Extend

	6	7	8
<b>Ratios and Proportional Relationships (RP)</b>			
<b>Concept of Ratio</b>			
Fractions and ratio	●	●	◆
Model ratios	●	◆	
Notation for ratio	●	◆	◆
Rate language	●	◆	◆
Unit rates and ratios	●	●	◆
Write ratios	●	◆	◆
<b>Proportional Relationships</b>			
Equations		●	●
Multistep problems		●	◆
Relationship between two quantities		●	●
<b>Rate and Ratio Reasoning</b>			
Constant of proportionality		●	◆
Convert measurements	●		
Distance, rate, time formula	●	◆	◆
Equivalent ratios	●	◆	◆
Percent	●		
Real-world problems	●	◆	◆
Unit rate	●	●	◆

# The Number System

● Investigate and Analyze    ◆ Apply and Extend

	6	7	8
<b>The Number System (NS)</b>			
<b>Addition and Subtraction of Decimals</b>			
Add decimals	●		
Subtract decimals	●		
<b>Common Factors and Multiples</b>			
Greatest common factor	●		
Least common multiple	●		◆
Prime factorization	●		

# The Number System

... Continued

• Investigate and Analyze    ♦ Apply and Extend

	6	7	8
<b>Division with Fractions</b>			
Divide fractions	•		
Divide mixed numbers	•		
Reciprocal and inverse operations	•		
Visual fraction models	•		
<b>Division with Whole Numbers and Decimals</b>			
Divide decimals	•		
Divide whole numbers	•		
<b>Irrational numbers</b>			
Decimal expansion			•
Estimate			•
Rational approximations			•
Sets of real numbers			•
<b>Multiplication</b>			
Multiply decimals	•		
<b>Rational Numbers</b>			
Absolute value	•	♦	
Addition and subtraction		•	
Compare and order rational numbers	•	♦	
Decimals	•	•	♦
Distance with rational numbers	•		
Graph on the coordinate plane	•		
Multiplication and division	•	•	
Negative and positive numbers	•	•	
On the number line	•	•	
Opposites	•	♦	
Real-world problems	•	•	•
Reflection on the axes	•		



# Expressions and Equations

• Investigate and Analyze    ♦ Apply and Extend

	6	7	8
<b>Expressions and Equations (EE)</b>			
<b>Algebraic Expressions</b>			
Equivalent algebraic expressions	•	•	♦
Evaluate algebraic expressions	•	♦	♦
Identify parts of expressions	•	♦	♦
Model algebraic expressions	•	•	♦
Properties of operations		•	♦
Rewrite expressions		•	♦
Write algebraic expressions	•	•	♦
<b>Equations</b>			
Analyze relationships	•	♦	♦
Collect like terms		•	•
Dependent and independent variables	•	♦	♦
Determine solution sets			•
Expand expressions using Distributive Property		•	•
Express relationships	•	♦	♦
Graph relationships	•	•	•
Linear equations	•	•	•
Linear equations on the coordinate plane	•	•	•
Meaning of equality	•		
Model equations	•	•	♦
Multistep problems with positive and negative numbers		•	♦
One-variable equations	•	•	•
Pairs of simultaneous linear equations			•
Rational number coefficients			•
Real-world problems		•	♦
Symbols showing relations	•		
Translate between equations and table values	•		
<b>Inequalities</b>			
Graph inequalities with one variable	•	•	
Identify solutions	•	•	
Real-world problems	•	•	
Solutions of inequalities on a number line	•	•	
Solutions of inequalities using substitution	•	•	

# Expressions and Equations

... Continued

• Investigate and Analyze    ♦ Apply and Extend

	6	7	8
Symbols showing relations	•	•	
Write inequalities	•	•	
<b>Integer exponents</b>			
Properties			•
Scientific notation			•
<b>Numerical Expressions</b>			
Evaluate numerical expressions	•	♦	
Write numerical expressions	•	♦	
<b>Proportional Relationships</b>			
Equations		•	•
Graph proportional relationships			•
Multistep ratio problems			•
Relationship between two quantities		•	•
Slope			•
<b>Radicals</b>			
Cube root			•
Square root			•

# Functions

• Investigate and Analyze    ♦ Apply and Extend

	6	7	8
<b>Functions (F)</b>			
<b>Functions</b>			
Analyze functions			•
Compare two function representations			•
Construct functions			•
Define a function			•
Function graphs			•

# Geometry

• Investigate and Analyze    ♦ Apply and Extend

	6	7	8
<b>Geometry (G)</b>			
<b>Angles</b>			
Angle sum			•
Angle-angle criterion for triangle symmetry			•
Angles formed by transversal			•
Equations to find unknown angle	•	•	•
Exterior angle of triangles			•
Multistep problems to find unknown angles		•	•
Types of angles		•	•
<b>Area</b>			
Area of a circle		•	
Area of a composite figure	•	•	
Area of a parallelogram	•	•	
Area of a polygon	•	•	
Area of a trapezoid	•	•	
Area of a triangle	•	•	
Changing dimensions and area	•		
Distance on the coordinate plane	•		
Draw polygons on the coordinate plane	•		
Formulas for area	•	•	♦
Real-world problems	•	•	♦
Side lengths on the coordinate plane	•		
<b>Circumference</b>			
Find circumference		•	
Formula for circumference		•	
<b>Congruence and Similarity</b>			
Describe a sequence			•
Transformations			•
<b>Cross Sections</b>			
Right rectangular prisms		•	
Right rectangular pyramids		•	

# Geometry

... Continued

• Investigate and Analyze    ♦ Apply and Extend

	6	7	8
<b>Geometric Shapes</b>			
Construct triangles		•	♦
Draw geometric shapes		•	♦
<b>Pythagorean Theorem</b>			
Distance between two points			•
Proof			•
Real-world problems in two- and three-dimensions			•
Unknown side lengths of right triangles			•
<b>Scale Drawings</b>			
Compute lengths		•	•
Find area		•	
Reproduce at different scale		•	•
<b>Surface Area</b>			
Nets	•	•	
Real-world problems	•	•	
Surface area of a composite solid		•	
Surface area of a cube	•	♦	
Surface area of a prism	•	•	
Surface area of a pyramid	•		
<b>Three-Dimensional Figures</b>			
Right rectangular prisms		•	
Right rectangular pyramids		•	
<b>Volume</b>			
Formula for volume	•	•	•
Fractional side lengths and volume	•		
Real-world problems	•	•	•
Use cubes to find volume	•		•
Volume of a composite solid		•	
Volume of a cone			•
Volume of a cylinder			•
Volume of a rectangular prism	•	♦	
Volume of a sphere			•
Volume of a trapezoidal prism		•	
Volume of a triangular prism		•	

# Statistics and Probability

• Investigate and Analyze    ♦ Apply and Extend

	6	7	8
<b>Statistics and Probability (SP)</b>			
<b>Bivariate Data</b>			
Equation of a linear model			•
Scatter plot			•
Two-way table			•
<b>Compare Data</b>			
Comparative inference		•	♦
<b>Display Data</b>			
Box plot	•	♦	
Dot plot	•	♦	
Frequency table	•	♦	♦
Histogram	•		
Two-way frequency table			•
<b>Probability</b>			
Compound events		•	
Probability model		•	
Probability of chance event		•	
<b>Statistical Questions</b>			
Describe data collections	•	•	
Distribution of data	•	•	
Measure of center	•	•	
Measure of variation	•		
Recognize statistical questions	•		
<b>Statistical Samples</b>			
Random samples		•	
Representative samples		•	
Validity		•	

# Statistics and Probability

... Continued

Investigate and Analyze    ♦ Apply and Extend

	6	7	8
<b>Summarize Data</b>			
Box plot	•	•	
Describe data collections	•	•	•
Describe distributions	•	•	•
Dot plot	•	•	
Effects of outliers	•	♦	•
Frequency table	•	♦	♦
Histogram	•		
Interpret data displays	•	•	•
Measures of central tendency	•	•	
Measures of variability	•	•	
Multiples of variability		•	

[illegible]

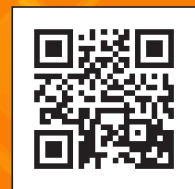


# Scope and Sequence

## Grades K–8

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