# Scope and Sequence

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Grades K – 5
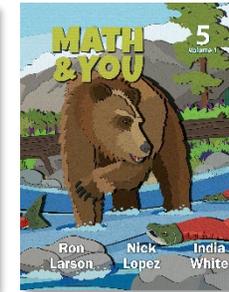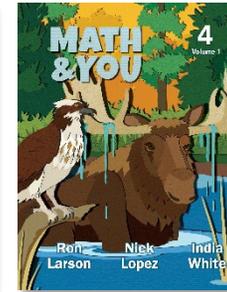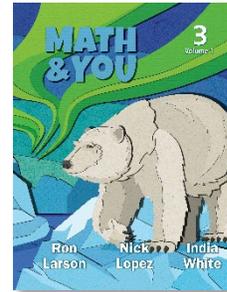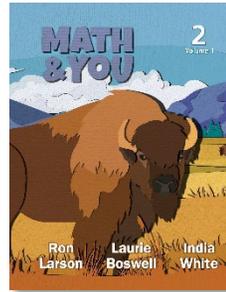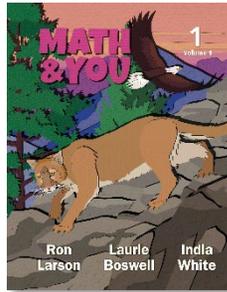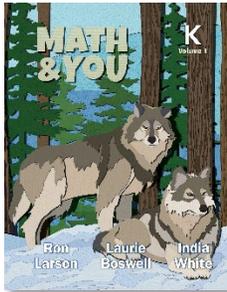
	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Counting & Cardinality						
Know number names and the count sequence.	●					
Count to tell the number of objects.	●					
Compare numbers.	●					
Operations & Algebraic Thinking						
Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.	●					
Represent and solve problems involving addition and subtraction.		●	●			
Understand and apply properties of operations and the relationship between addition and subtraction.		●				
Add and subtract within 20.		●	●			
Work with addition and subtraction equations.		●				
Work with equal groups of objects to gain foundations for multiplication.			●			
Represent and solve problems involving multiplication and division.				●		
Understand properties of multiplication and the relationship between multiplication and division.				●		
Multiply and divide within 100.				●		
Solve problems involving the four operations, and identify and explain patterns in arithmetic.				●		
Use the four operations with whole numbers to solve problems.					●	
Gain familiarity with factors and multiples.					●	
Generate and analyze patterns.					●	
Write and interpret numerical expressions.						●
Analyze patterns and relationships.						●
Number & Operations in Base Ten						
Work with numbers 11 – 19 to gain foundations for place value.	●					
Extend the counting sequence.		●				

Note: Once a topic is introduced, it is applied and extended throughout the book and reinforced as needed or appropriate at subsequent grade levels.

Big Ideas Learning

	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Understand place value.		●	●			
Use place value understanding and properties of operations to add and subtract.		●	●			
Use place value understanding and properties of operations to perform multi-digit arithmetic.				●	●	
Generalize place value understanding for multi-digit whole numbers.					●	
Understand the place value system.						●
Perform operations with multi-digit whole numbers and with decimals to hundredths.						●
Measurement & Data						
Describe and compare measureable attributes.	●					
Classify objects and count the number of objects in each category.	●					
Measure lengths indirectly and by iterating length units.		●				
Tell and write time.		●				
Represent and interpret data.		●	●			
Measure and estimate lengths in standard units.			●			
Relate addition and subtraction to length.			●	●		
Work with time and money.			●	●		
Geometry						
Identify and describe shapes.	●					
Analyze, compare, create, and compose shapes.	●					
Reason with shapes and their attributes.		●	●	●		
Draw and identify lines and angles, and classify shapes by properties of their lines and angles.					●	
Graph points on the coordinate plane to solve real-world and mathematical problems.						●
Classify two-dimensional figures into categories based on their properties.						●
Number & Operations - Fractions						
Develop understanding of fractions as numbers.				●		

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	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Extend understanding of fraction equivalence and ordering.					●	
Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.					●	
Understand decimal notation for fractions, and compare decimal fractions.					●	
Use equivalent fractions as a strategy to add and subtract fractions.						●
Apply and extend previous understandings of multiplication and division to multiply and divide fractions.						●
Measurement and Data						
Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.				●		
Geometric measurement: understand concepts of area and relate area to multiplication and to addition.				●		
Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.				●		
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.					●	
Represent and interpret data.				●		●
Geometric measurement: understand concepts of angle and measure angles.					●	
Convert like measurement units within a given measurement system.						●
Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.						●

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Big Ideas Learning