Purpose of Document

This document describes the prerequisites for each ST Math Objective in the 2023-2024 school year Common Core curriculum. Any effective reordering of Objectives should respect the indicated Objective prerequisites in order to avoid breaking the internal coherence, schema building, and content dependencies that exist between certain Objective pairs.

Considerations for Curriculum Reordering

Even though the ST Math Objective order can be changed to match your school / textbook topic ordering, the length of time students spend on topics may differ due to the personalized nature of ST Math. For example, your school / textbook syllabus may schedule 2 weeks for Counting to 10, but students who need more time may take 4 weeks in ST Math.

Prerequisite Objectives

Prerequisite Objectives should be played before the indicated ST Math Objective. The left side of the table below displays each ST Math Objective in the default order and the right side shows the immediate prerequisite for each Objective.

Please consider: Any immediate prerequisite in the right column may have its own prerequisites. Objectives that are positioned by default later in the Journey will likely have a chain of prerequisites.

Kindergarten

Journey

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Intro to ST Math		
Numbers and Objects to 5	3 Objectives	
Subitizing		Numbers and Objects to 5
Numbers and Objects to 10	2 Objectives	Numbers and Objects to 5
Exploring Shapes	3 Objectives	
Greater Than, Less Than, Equal To	1 Objective	Numbers and Objects to 10
Understanding Addition and Subtraction within 5	2 Objectives	Numbers and Objects to 5
Composing Shapes		Exploring Shapes
Understanding Addition and Subtraction within 10	1 Objective	Understanding Addition and Subtraction within 5
Making 10 and Number Pairs		Understanding Addition and Subtraction within 10
Numbers and Objects to 20	2 Objectives	Numbers and Objects to 10
Comparing Numbers		Greater Than, Less Than, Equal To
Counting to 100		Numbers and Objects to 20
Foundations of Place Value		Numbers and Objects to 20
Measurable Attributes		
Addition and Subtraction Facts within 5		Understanding Addition and Subtraction within 5
Sorting and Classifying		
Analyzing Shapes		Exploring Shapes
Position	1 Objective	Exploring Shapes

Bonus

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Math Challenge K		
Challenge K		
Exploring Patterns	1 Objective	
Advanced Patterns		Exploring Patterns
Position Symbolic		Position

Grade 1

Journey

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Intro to ST Math		
Addition and Subtraction Within 10	5 Objectives	
Measurement Concepts		
Number Pairs and Making 10		Addition and Subtraction Within 10
Tens as a Unit	1 Objective	Addition and Subtraction Within 10 Counting to 120
Addition and Subtraction Within 20		Addition and Subtraction Within 10
Addition and Subtraction with Unknowns	1 Objective	Addition and Subtraction Within 10
Addition, Subtraction and Equations		Addition and Subtraction with Unknowns
Composite Shapes		
Place Value Concepts	3 Objective	
Bundles to 100	1 Objectives	Tens as a Unit
Counting to 120	1 Objective	
Comparing Two-Digit Numbers		Place Value Concepts
Adding and Subtracting by Tens	1 Objective	Addition and Subtraction Within 10 Place Value Concepts
Equal Shares and Partitioning	1 Objective	
Shape Differences		
Organizing Data		
Telling Time		

Bonus

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Math Challenge 1		
Challenge 1		
Equal Shares and Partitioning Symbolic		Equal Shares and Partitioning
Two-Digit Number Words		Place Value Concepts

Grade 2

Journey

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Intro to ST Math		
Skip Counting		
Addition and Subtraction Situations	1 Objective	
One Hundred as a Unit		
The Number Line	5 Objectives	
Addition and Subtraction Situations within 100	1 Objective	Addition and Subtraction Situations
Place Value to 1,000	3 Objectives	
Counting to 1,000		The Number Line
Comparing Three-Digit Numbers		The Number Line
Operations on the Number Line		The Number Line
Measurement	1 Objective	
Adding and Subtracting Tens and Hundreds	1 Objective	The Number Line Place Value to 1,000
Place Value Bundles to 1,000	1 Objective	Place Value to 1,000 Adding and Subtracting Tens and Hundreds
Two Step Situations		Addition and Subtraction Situations within 100
Addition and Subtraction within 100		The Number Line
Addition and Subtraction with Measurement		Measurement
Intro to Arrays	1 Objective	
Even and Odd Numbers		
Partitioning into Equal Shares	1 Objective	
Model Addition and Subtraction within 1000		
Time		
Shapes		
Money	1 Objective	
Creating Graphs		
Intro to Line Plots		Intro to Arrays

Bonus

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Math Challenge 2		
Challenge 2		
Money, Extended		Money
Partitioning Symbolic		Partitioning into Equal Shares

Grade 3

Journey

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Intro to ST Math		
Multiplication Concepts	3 Objectives	
Division Concepts	1 Objective	
Multiplication and Division Relationships	5 Objectives	Multiplication Concepts Division Concepts
Rounding Three-Digit Numbers		
Addition and Subtraction within 1,000 Strategies	2 Objectives	
Addition and Subtraction with Regrouping		Addition and Subtraction within 1,000 Strategies
Multiplication and Area		Multiplication Concepts
Properties of Multiplication		Multiplication and Division Relationships
Multiplication Facts and Strategies		Multiplication and Division Relationships
Division Facts and Strategies		Multiplication and Division Relationships
Fraction Concepts	2 Objectives	
Fractions on the Number Line		Fraction Concepts
Fraction Equivalence and Ordering		Fraction Concepts
Number Patterns	1 Objective	Multiplication and Division Relationships
Mass and Volume	1 Objective	
Solve Two-Step Problems		Multiplication and Division Relationships
Area and Perimeter	1 Objective	
Time to the Minute	1 Objective	
Intervals of Time		Time to the Minute
Scale and Measurement in Graphing		Multiplication Concepts
Line Plots		Area and Perimeter
Shape Attributes		

Bonus

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Math Challenge 3		
Challenge 3		
Cognitive Training		
Patterns and Functions		Number Patterns
Temperature and Capacity		Mass and Volume
Place Value Bundles - Ten, Hundred, Thousand		Place Value Bundles

Grade 4

Journey

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Place Value	2 Objectives	
Rounding Whole Numbers		Place Value
Comparing Whole Numbers		Place Value
Addition and Subtraction Algorithm		
Multi-Step Addition and Subtraction Problems	1 Objective	
Multiplicative Comparison		
Factors and Multiples		
Patterns		
Multi-Step Problems Using 4 Operations		Multi-Step Addition and Subtraction Problems
Applying Area and Perimeter	2 Objectives	
Mixed Numbers	4 Objectives	
Fraction Equivalence		Mixed Numbers
Addition and Subtraction with Fractions	1 Objective	Mixed Numbers
Fraction Multiplication		Mixed Numbers
Decimal Fractions	1 Objective	Addition and Subtraction with Fractions
Comparing Decimals		Decimal Fractions
Lines and Angles		
Lines of Symmetry		
Classifying Shapes		
Measurement and Conversions		
Multi-Digit Multiplication		Applying Area and Perimeter
Multi-Digit Division		Applying Area and Perimeter
Line Plots and Range		Mixed Numbers

Bonus

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Math Challenge 4		
Challenge 4		
Cognitive Training		

Grade 5

Journey

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Decimal Place Value	6 Objectives	
Comparing with Decimals		Decimal Place Value
Rounding Decimals		Decimal Place Value
Interpret Expressions		
Patterns and Relationships		
Multiplication Algorithm	1 Objective	
Division Algorithm Strategies	1 Objective	
Addition and Subtraction with Decimals		Decimal Place Value
Multiplying Decimals		Decimal Place Value Multiplication Algorithm
Dividing Decimals		Decimal Place Value Division Algorithm Strategies
Common Denominators and Equivalent Fractions	2 Objectives	
Adding and Subtracting Fractions with Unlike Denominators		Common Denominators and Equivalent Fractions
Multiplying Fractions	1 Objective	Common Denominators and Equivalent Fractions
Dividing Fractions		Multiplying Fractions
Volume		
Converting Measurements		
The Coordinate Plane		
Line Plots Decimals and Mode		Decimal Place Value
Shapes and Properties		

Bonus

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Math Challenge 5		
Challenge 5		
Cognitive Training		

Grade 6

Journey

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Negative Numbers	2 Objectives	
Coordinates and Distances	2 Objectives	Negative Numbers
Proportional Reasoning		
Percents		
Unit Rates, Tables, and Graphs (G6)	2 Objectives	Coordinates and Distances
Fraction Division		Unit Rates, Tables, and Graphs (G6)
Properties of Operations (G6)	2 Objectives	
Division Algorithm	1 Objective	
Modeling with Expressions (G6)		Properties of Operations (G6)
Solving One-Step Equations (G6)		Properties of Operations (G6)
Linear Relationships (G6)		
Exponents		
Decimal Addition and Subtraction		
Decimal Multiplication		
Decimal Division		Division Algorithm
Area of Polygons		
Line Plot Intro and Histograms	1 Objective	Negative Numbers
Line Plots And Summary Statistics (G6)		Line Plot Intro and Histograms

Bonus

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Challenge 6		
Cognitive Training		
Applying Rates and Ratios (G6)		Unit Rates, Tables, and Graphs (G6)
Graphing Proportional Relationships		Coordinates and Distances
Summer Bridge Grade 6		

Grade 7

Journey

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Addition and Subtraction with Negative Numbers	1 Objective	
Multiplication and Division with Negative Numbers	1 Objective	
Proportional Relationships		
Percents with Increases and Decreases	1 Objective	
Unit Rates, Tables, and Graphs (G7)	1 Objective	
Rational Concepts (G7)		
Adding and Subtracting Rational Numbers		Addition and Subtraction with Negative Numbers
Multiplying and Dividing Rational Numbers		Multiplication and Division with Negative Numbers
Properties of Operations	1 Objective	
Modeling with Expressions		Properties of Operations
Solving One-Step Equations (G7)	1 Objective	
Solving Two-Step Equations (G7)		Solving One-Step Equations (G7)
Linear Relationships		
Multi-Step Percents		Percents with Increases and Decreases
Applying Rates and Ratios		Unit Rates, Tables, and Graphs (G7)
Scale and Slope Graphs (G7)		
Polygon Angle Sums		
Probability		
Line Plots and Summary Statistics (G7)		

Bonus

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Challenge 7		
Cognitive Training		
Summer Bridge Grade 7		

Grade 8

Journey

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Rational Concepts		
Unit Rates, Tables, and Graphs		
Solving One-Step Equations	1 Objective	
Solving Two-Step Equations	2 Objectives	Solving One-Step Equations
Solving Linear Equations	1 Objective	Solving Two-Step Equations
Exponents and Squares		
Scale and Slope Graphs		
Function Concepts		Solving Linear Equations
Graphing Linear Functions		Solving Two-Step Equations
Line Plots and Summary Statistics		

Bonus

ST Math Objective	Is a prerequisite for	Prerequisite(s)
Challenge 8		
Cognitive Training		
Summer Bridge Grade 8		