



Purpose of Document

This document describes the prerequisites for each ST Math Objective in the 2022-2023 school year Texas 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.

Journey

ST Math Objective	Prerequisite(s)
Intro to ST Math	
Numbers and Objects to 5	
Subitizing	
Numbers and Objects to 10	Numbers and Objects to 5
Exploring Shapes	
Greater Than, Less Than, Equal To	Numbers and Objects to 10
Understanding Addition and Subtraction within 5	Numbers and Objects to 5
Analyzing Shapes	Exploring Shapes
Understanding Addition and Subtraction within 10	Understanding Addition and Subtraction within 5
Making 10 and Number Pairs	Understanding Addition and Subtraction within 10
Numbers and Objects to 20	Numbers and Objects to 10
Comparing Numbers	Greater Than, Less Than, Equal To
Counting to 100	Numbers and Objects to 20
Measurable Attributes	
Composing Shapes	Exploring Shapes
Addition and Subtraction Facts within 5	Understanding Addition and Subtraction within 5
Sorting and Classifying	
Counting Pennies	Numbers and Objects to 20

Bonus

ST Math Objective	Prerequisite(s)
Math Challenge K	
Challenge K	
Exploring Patterns	
Advanced Patterns	Exploring Patterns
Position Symbolic	Position
Foundations of Place Value	

Grade 1

Journey

ST Math Objective	Prerequisite(s)
Intro to ST Math	
Addition and Subtraction Within 10	
Measurement Concepts	
Addition, Subtraction and Equations	Addition and Subtraction with Unknowns
Number Pairs and Making 10	Addition and Subtraction Within 10
Counting by Tens	Addition and Subtraction Within 10 Counting to 120
Counting with Groups	Counting by Tens
Counting to 120	
Addition and Subtraction with Unknowns	Addition and Subtraction Within 10
Place Value Concepts	Counting with Groups
Adding and Subtracting by Tens	Addition and Subtraction Within 10 Place Value Concepts
Composite Shapes	
Using Place Value to Add	Adding and Subtracting by Tens
Comparing & ordering Two-Digit Numbers	Place Value Concepts
Addition and Subtraction Within 20	Addition and Subtraction Within 10
Equal Shares and Partitioning	
Shape Differences	
Organizing Data	
Telling Time	
Money	Place Value Concepts

Bonus

ST Math Objective	Prerequisite(s)
Math Challenge 1	
Challenge 1	
Equal Shares and Partitioning Symbolic	Equal Shares and Partitioning
Two-Digit Number Words	Place Value Concepts
Comparing Two-Digit Numbers	Place Value Concepts

Grade 2

Journey

ST Math Objective	Prerequisite(s)
Intro to ST Math	
Skip Counting	
The Number Line	
Addition and Subtraction Situations	
Addition and Subtraction Situations within 100	Addition and Subtraction Situations
Place Value to 1,000	
Comparing Three-Digit Numbers	The Number Line Place Value to 1,000
Measurement	
Addition and Subtraction with Measurement	Measurement
Operations on the Number Line	The Number Line Addition and Subtraction with Measurement
Counting to 1,000	The Number Line Place Value to 1000
Two Step Situations	Addition and Subtraction Situations within 100
Adding and Subtracting Tens and Hundreds	The Number Line Place Value to 1,000
Using Place Value to Add and Subtract	Place Value Bundles - Ten and Hundred
Place Value Bundles - Ten and Hundred	Place Value to 1,000 Adding and Subtracting Tens and Hundreds
Time	
Model Addition and Subtraction within 1000	Using Place Value to Add and Subtract
Addition and Subtraction within 100	The Number Line Using Place Value to Add and Subtract
Even and Odd Numbers	
Intro to Arrays	
Shapes	
Represent Numbers to 1000	Place Value to 1,000
Partitioning into Equal Shares	
Creating Graphs	
Using Money	Addition and Subtraction Situations within 100

Bonus

ST Math Objective	Prerequisite(s)
Math Challenge 2	
Challenge 2	
Money Place Value	
Partitioning Symbolic	Partitioning into Equal Shares

Grade 3

Journey

ST Math Objective	Prerequisite(s)
Intro to ST Math	
Multiplication Concepts	
Division Concepts	
Rounding Three-Digit Numbers	
Multiplication and Area	Multiplication Concepts
Properties of Multiplication	Multiplication Concepts
Fraction Concepts	
Fractions on the Number Line	Fraction Concepts
Fraction Equivalence and Ordering	Fraction Concepts Fractions on the Number Line
Multiplication and Division Relationships	Multiplication Concepts Division Concepts
Area and Perimeter	Multiplication and Area
Multiplication Facts and Strategies	Multiplication Concepts
Division Facts and Strategies	Division Concepts
Solve Two-Step Problems	Multiplication Concepts Division Concepts
Number Patterns	
Place Value Bundles - Ten, Hundred, Thousand	
Addition and Subtraction with Regrouping	Place Value Bundles
Multiplicative Comparison	Multiplication Concepts Multiplication and Area
Time to the Minute	
Intervals of Time	Time to the Minute
Mass and Volume	
Shapes	
Scale and Measurement in Graphing	
Line Plots	

Bonus

ST Math Objective	Prerequisite(s)
Math Challenge 3	
Challenge 3	
Cognitive Training	
Patterns and Functions	Number Patterns
Temperature and Capacity	

Grade 4

Journey

ST Math Objective	Prerequisite(s)
Generating Patterns	
Using Place Value	
Rounding Whole Numbers	Using Place Value
Comparing Whole Numbers	Using Place Value
Mixed Numbers	
Fractions - Equivalence and Ordering	Mixed Numbers
Applying Area and Perimeter	
Addition and Subtraction with Fractions	Mixed Numbers
Multi-Step Problems Using 4 Operations (G4)	
Lines of Symmetry	
Decimal Fractions	
Classifying Shapes	
Addition and Subtraction Algorithm	Using Place Value
Multi-Step Addition and Subtraction Problems	
Comparing Decimals	Decimal Fractions
Lines and Angles	
Addition and Subtraction with Decimals	Decimal Fractions
Multi-Digit Multiplication	
Multi-Digit Division	
Line Plots and Range	
Measurement and Conversions	

Bonus

ST Math Objective	Prerequisite(s)
Math Challenge 4	
Challenge 4	
Cognitive Training	
Factors and Multiples	

Grade 5

Journey

ST Math Objective	Prerequisite(s)
Decimal Place Value	
Comparing with Decimals	Decimal Place Value
Interpret Expressions	
Rounding Decimals	Decimal Place Value
Patterns and Relationships	
Common Denominators and Equivalent Fractions	
Adding and Subtracting Fractions with Unlike Denominators	Common Denominators and Equivalent Fractions
Prime and Composite Numbers	
Multiplication Algorithm	
Division Algorithm Strategies	
Volume	
Multiplying Fractions	Common Denominators and Equivalent Fractions
Dividing Fractions	Multiplying Fractions
Decimal Addition and Subtraction	Decimal Place Value
The Coordinate Plane	
Multiplying Decimals	Decimal Place Value Multiplication Algorithm
Shapes and Properties	
Dividing Decimals	Decimal Place Value Division Algorithm Strategies
Converting Measurements	
Line Plots Decimals and Mode	
Using Data and Graphs	

Bonus

ST Math Objective	Prerequisite(s)
Math Challenge 5	
Challenge 5	
Cognitive Training	

Grade 6

Journey

ST Math Objective	Prerequisite(s)
Negative Numbers	
Coordinates and Distances	
Addition and Subtraction with Negative Numbers	Negative Numbers
Proportional Reasoning	
Percents	
Representing Ratios and Rates	Proportional Reasoning
Multiplication and Division w/ Negative Numbers	Negative Numbers Addition and Subtraction with Negative Numbers
Fraction Division	
Properties of Operations (G6)	
Division Algorithm	
Solving One-Step Equations (G6)	
Linear Relationships (G6)	
Exponents	
Decimal Multiplication	
Decimal Division	Division Algorithm
Area of Polygons	
Line Plot Intro and Histograms	
Line Plots And Summary Statistics (G6)	Line Plot Intro and Histograms

Bonus

ST Math Objective	Prerequisite(s)
Challenge 6	
Cognitive Training	
Applying Rates and Ratios (G6)	Proportional Reasoning Representing Rates and Ratios
Graphing Proportional Relationships	Coordinates and Distances
Summer Bridge Grade 6	

Grade 7

Journey

ST Math Objective	Prerequisite(s)
Rational Concepts (G7)	
Adding and Subtracting Rational Numbers	
Multiplying and Dividing Rational Numbers	Adding and Subtracting Rational Numbers
Proportional Relationships	
Percents with Increases and Decreases	
Unit Rates, Tables, and Graphs (G7)	Proportional Relationships
Properties of Operations	
Modeling with Expressions	
Solving One-Step Equations (G7)	
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)	Proportional Relationships
Polygon Angle Sums	
Probability	
Line Plots and Summary Statistics (G7)	

Bonus

ST Math Objective	Prerequisite(s)
Challenge 7	
Cognitive Training	
Summer Bridge Grade 7	

Grade 8

Journey

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

Bonus

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