

Standard Course of Study Alignment

Mathematics (2017)



EXPLORE

Legend

•	The standard is clearly addressed by program activities.
-	This standard potentially could be addressed as part of FIRST® LEGO® League Discover either by actions that the coach or teacher takes when working with the students or by conditions established by the program.

Grade 2

Standard	Addressed
Operations and Algebraic Thinking	
Represent and solve problems.	-
Add and subtract within 20.	-
Work with equal groups.	-
Number and Operations in Base Ten	
Understand place value.	-
Use place value understanding and properties of operations.	-
Measurement and Data	
Measure and estimate lengths.	-
Relate addition and subtraction to length.	-
Build understanding of time and money.	-
Represent and interpret data.	-
Geometry	
Reason with shapes and their attributes.	-

Grade 3

Standard	Addressed
Operations and Algebraic Thinking	
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 two-step problems.	-
Explore patterns of numbers.	-
Number and Operations in Base Ten	
Use place value to add and subtract.	-
Generalize place value understanding for multi-digit numbers.	-
Number and Operations – Fractions	
Understand fractions as numbers.	-
Measurement and Data	
Solve problems involving measurement.	-
Represent and interpret data.	-

Understand the concept of area.	-
Understand the concept of perimeter.	-
Geometry	
Reason with shapes and their attributes.	-

Grade 4

Standard	Addressed
Operations and Algebraic Thinking	
Represent and solve problems involving multiplication and division.	-
Use the four operations with whole numbers to solve problems.	-
Gain familiarity with factors and multiples.	-
Generate and analyze patterns.	-
Number and Operations in Base Ten	
Generalize place value understanding for multi-digit whole numbers.	-
Use place value understanding and properties of operations to perform multi-digit arithmetic.	-
Number and Operations – Fractions	
Extend understanding of fractions.	-
Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	-
Use unit fractions to understand operations of fractions.	-
Understand decimal notation for fractions, and compare decimal fractions.	-
Measurement and Data	
Solve problems involving measurement.	-
Solve problems involving area and perimeter.	-
Represent and interpret data.	-
Understand concepts of angle and measure angles.	-
Geometry	
Classify shapes based on lines and angles in two-dimensional figures.	-