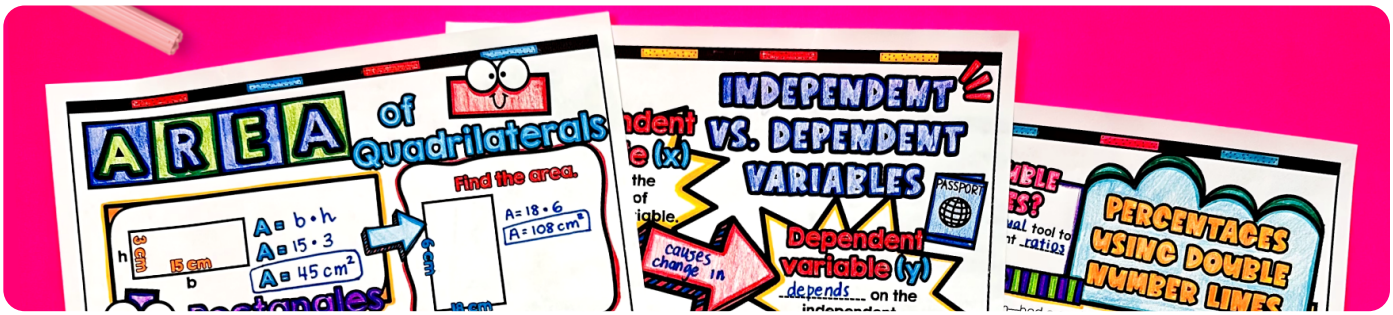
congruent math

6th Grade Curriculum

Explore our free 6th grade math curriculum: a full scope and sequence, CCSS-aligned units, and lesson plans covering ratios, rational numbers, and algebra.



Overview

Sixth grade builds the bridge from arithmetic to algebra through **ratios & rates**, **rational numbers**, **expressions and equations**, **geometry**, and **statistics**. This free curriculum includes a year map, unit overviews with CCSS codes, and lesson plans. The lesson plans pair with guided notes, and can be extended with with printable practice and selfchecking digital activities, as well as daily SEL routines (warm-ups). Our curriculum is free to read online, and each lesson plan is downloadable. This 6th grade math curriculum includes a free scope and sequence — download the Curriculum Map PDF to preview the full year before diving into individual units.

Year at a Glance

Unit	Title	Summary	Key Standards*
1	Place Value & Decimal Operations	Students explore decimal place value, addition, subtraction, multiplication, and division of decimals, developing a strong understanding of the decimal number system.	5.NBT.A.1 5.NBT.A.3 5.NBT.A.4 6.NS.B.2 6.NS.B.3
2	Fraction Operations, GCF & LCM	Students explore fractions by understanding GCF & LCM, adding and subtracting fractions with unlike denominators, multiplying fractions and mixed numbers, and dividing fractions and mixed numbers using real-life applications.	5.NF.A.1 5.NF.A.2 5.NF.B.4 5.NF.B.5 5.NF.B.6 6.NS.A.1 6.NS.B.4
3	Integers, Opposites & Absolute Values	Students learn about absolute values, comparing, and ordering integers on number lines, as well as the concept of opposites and real-life applications of integers.	6.NS.C.5 6.NS.C.6 6.NS.C.7

4	**Ratios, Rates, Percents & Unit Conversions**	Students explore ratios, rates, unit rates, and their applications in solving problems and making comparisons, followed by learning measurement conversions and percent calculations using equations and double number lines.	6.RP.A.1 6.RP.A.2 6.RP.A.3
5	**Algebraic Expressions**	Students learn to identify, simplify, evaluate, and write algebraic expressions using mathematical terms, the distributive property, order of operations, and real-life applications. They also explore prime factorization through factor trees and its relevance in everyday scenarios.	6.EE.A.1 6.EE.A.2 6.EE.A.3 6.EE.A.4 6.EE.B.6 6.NS.B.4
6	**Equations & Inequalities**	Students learn to represent relationships between variables, verify solutions to equations and inequalities, solve one-step equations with positive solutions, and write and graph one-step inequalities.	6.EE.B.5 6.EE.B.6 6.EE.B.7 6.EE.B.8 6.EE.C.9
7	**Geometry**	Students learn about coordinate graphing, calculating areas of triangles, parallelograms, trapezoids, rectangles, and composite figures, as well as surface area and volume of rectangular prisms.	6.G.A.1 6.G.A.2 6.G.A.3 6.G.A.4 6.NS.C.8 7.G.B.6
8	**Data & Statistics**	Students learn about mean, median, mode, mean absolute deviation, shapes of distributions, statistical questions, dot plots, histograms, and box and whisker plots to analyze and display numerical data.	6.SP.A.1 6.SP.A.2 6.SP.A.3 6.SP.B.4 6.SP.B.5

** Abbreviated list. Visit congruentmath.com/curriculum/6th-grade/ for full standards alignment & resources.*

CCSS Alignment

Unit	6.EE	6.G	6.NS	6.RP	6.SP
1			B.2 B.3		
2			A.1 B.4		
3			C.5 C.6 C.7		
4				A.1 A.2 A.3	
5	A.1 A.2 A.3 A.4 B.6		B.4		
6	B.5 B.6 B.7 B.8 C.9				
7		A.1 A.2 A.3 A.4	C.8		
8					A.1 A.2 A.3 B.4 B.5

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Materials You May Need

Supporting resources that pair with this pacing guide.

- Guided Notes Bundle: structured printable & digital notes for every unit – open resource
- Free Curriculum Library: unit maps & lesson plans – browse online
- Practice & Extension Activities: printable + interactive options – open catalog