

Math Mammoth Grade 6-B (2022 ed.)

Alignment to the Common Core Standards

The table below lists each lesson in the student worktext 6-B, and next to it the relevant Common Core Standard (CCS).

Math Mammoth Grade 6-B

Chapter 6: Prime Factorization, GCF, and LCM

Note: prime factorization is not a topic in the CCS but is included in Math Mammoth.

Lesson	page	Standards
The Sieve of Eratosthenes and Prime Factorization	13	
Using Factoring When Simplifying Fractions	17	
The Greatest Common Factor (GCF)	20	6.NS.4
Factoring Sums	23	6.NS.4
The Least Common Multiple (LCM)	26	6.NS.4
Chapter 6 Mixed Review	30	6.NS.3 6.RP.3 6.EE.1 6.EE.2 6.EE.3 6.EE.5
Chapter 6 Review	32	6.NS.4

Chapter 7: Fractions

Note: addition, subtraction, and multiplication of fractions are included as review from 5th grade.

Lesson	page	Standards
Review: Add and Subtract Fractions and Mixed Numbers	37	6.EE.2 5.NF.1 5.NF.2
Add and Subtract Fractions: More Practice	41	5.NF.1
Review: Multiplying Fractions 1	44	5.NF.4 5.NF.6
Review: Multiplying Fractions 2	47	5.NF.4 5.NF.6
Dividing Fractions: Reciprocal Numbers	50	6.NS.1
Divide Fractions	55	6.NS.1
Problem Solving with Fractions 1	59	6.NS.1
Problem Solving with Fractions 2	62	6.NS.1 6.RP.3
Chapter 7 Mixed Review	65	6.RP.3 6.NS.4 6.EE.2
Fractions Review	67	6.NS.1 6.RP.3

Chapter 8: Integers

Note: Addition and subtraction of integers are not included in the standards for 6th grade. I have included them here simply because I feel students are ready to study them, at least to some extent, at the same time as they study the concepts of integers, absolute value, and ordering integers. In 7th grade, we study all operations with integers.

Lesson	page	Standards
Integers	73	6.NS.5 6.NS.6 6.NS.7
Coordinate Grid	76	6.NS.8
Coordinate Grid Practice	80	6.NS.7 6.NS.8 6.G.3
Addition and Subtraction as Movements	83	7.NS.1
Adding Integers: Counters	86	7.NS.1
Subtracting a Negative Integer	89	7.NS.1
Add and Subtract Roundup	91	7.NS.1
Graphing	93	6.NS.8 6.EE.2 6.EE.9
Chapter 8 Mixed Review	97	6.EE.7 6.RP.3 6.NS.1
Integers Review	99	6.NS.5 6.NS.6 6.NS.7 6.NS.8 6.G.3

Chapter 9: Geometry

Lesson	page	Standards
Quadrilaterals Review	105	5.G.4
Triangles Review	108	
Area of Right Triangles	110	6.G.1
Area of Parallelograms	112	6.G.1
Area of Triangles	115	6.G.1
Polygons in the Coordinate Grid	117	6.NS.8 6.G.3
Area of Polygons	120	6.G.1
Area of Shapes not Drawn on Grid	122	6.G.1
Area and Perimeter Problems	124	6.G.1 6.RP.3
Nets and Surface Area 1	126	6.G.4
Nets and Surface Area 2	129	6.G.4
Problems to Solve — Surface Area	131	6.G.4
Converting Between Area Units	133	6.G.1
Volume of a Rectangular Prism with Fractional Side Lengths	135	6.G.2
Volume Problems	138	6.G.2
Chapter 9 Mixed Review	140	6.NS.1 6.NS.3 6.RP.1 6.RP.2 6.RP.3 6.EE.7 6.EE.9 6.G.1 6.G.3
Geometry Review	143	6.G.1 6.G.2 6.G.4

Chapter 10: Statistics

Lesson	page	Standards
Understanding Distributions	149	6.SP.1 6.SP.2 6.SP.4 6.SP.5
Mean, Median, and Mode	154	6.SP.3 6.SP.4 6.SP.5
Using Mean, Median, and Mode	156	6.SP.3 6.SP.4 6.SP.5
Range and Interquartile Range	158	6.SP.3 6.SP.4 6.SP.5
Boxplots	160	6.SP.4
Mean Absolute Deviation	163	6.SP.3 6.SP.4 6.SP.5
Making Histograms	167	6.SP.4 6.SP.5
Summarizing Statistical Distributions	170	6.SP.4 6.SP.5
Stem-and-Leaf-Plots	174	6.SP.4 6.SP.5
Chapter 10 Mixed Review	176	6.NS.1 6.NS.4 6.NS.7 6.G.1 6.G.3 6.EE.3 6.EE.7
Statistics Review	179	6.SP.1 6.SP.2 6.SP.3 6.SP.4 6.SP.5