Math Mammoth Grade 7 Alignment to the Common Core Standards

The table below lists each lesson in the two student worktexts, 7-A and 7-B, and next to it the relevant Common Core Standard (CCS). Some lessons in the curriculum are intended for review of 6th grade topics. In those cases, I have listed the relevant standards from 6th grade.

Chapter 1: The Language of Algebra

Note: The first two lessons are intended for review.

Lesson	page	Standards
The Order of Operations	11	6.EE1. 6.EE2. 6.EE.6
Expressions and Equations	15	6.EE.2 6.EE.5 6.EE.6
Properties of the Four Operations	18	7.EE.1
Simplifying Expressions	22	6.EE.2 7.EE.1 7.EE.4
Growing Patterns 1	26	7.EE.2 7.EE.3 7.EE.4
The Distributive Property	29	7.EE.1 7.EE.2 7.EE.3 7.EE.4
Chapter 1 Review	34	7.EE.1 7.EE.3

Chapter 2: Integers

Note: The first lesson is intended for review.

Lesson	page	Standards
Integers	41	6.NS.5 6.NS.6 6.NS.7
Addition and Subtraction on the Number Line	45	7.NS.1
Addition of Integers	49	7.NS.1 7.NS.3
Subtraction of Integers	52	7.NS.1 7.NS.3
Adding or Subtracting Several Integers	56	7.NS.1 7.NS.3
Distance and More Practice	58	7.NS.1 7.NS.3
Multiplying Integers	62	7.NS.2 7.NS.3
Dividing Integers	67	7.NS.2 7.NS.3
Negative Fractions	69	7.NS.2 7.NS.3
The Order of Operations	73	7.NS.1 7.NS.2 7.NS.3
Chapter 2 Mixed Review	75	7.EE.1
Chapter 2 Review	77	7.NS.1 7.NS.2 7.NS.3

Chapter 3: Solving One-Step Equations

Note: The first lesson is intended for review.

Chapter 4: Rational Numbers

Chapter 5: Equations and Inequalities

Note: This chapter includes topics that exceed the CCS for 7th grade but that are traditionally included in pre-algebra courses, namely the topics of combining like terms and using the distributive property to solve linear equations, graphing, and slope.

Chapter 6: Ratios and Proportions

Note: The first lesson is intended for review.

Chapter 7: Percent

Note: The first lesson is intended for review.

Chapter 8: Geometry

Chapter 9: The Pythagorean Theorem

Note: This chapter exceeds the Common Core Standards for 7th grade. I recommend omitting it if your student(s) will use a curriculum in 8th grade that follows the CCS.

Lesson	page	Standards
Square Roots	189	8.NS.1
Equations That Involve Taking a Square Root	193	8.EE.2
The Pythagorean Theorem	198	8.G.7
The Pythagorean Theorem: Applications	203	8.G.7
A Proof of the Pythagorean Theorem	210	8.G.6
Chapter 9 Mixed Review	211	7.NS,3 7.EE.4 7.RP.3 7.G.2 8.G.9
Chapter 9 Review	214	8.EE.2 8.G.7

Chapter 10: Probability

Lesson	page	Standards
Probability	222	7.SP.5 7.SP.7
Probability Problems from Statistics	225	7.SP.7
Experimental Probability	227	7.SP.6 7.SP.7
Counting the Possibilities	230	7.SP.7 7.SP.8
Using Simulations to Find Probabilities	236	7.SP.8
Probability of Compound Events	242	
Chapter 10 Mixed Review	246	7.RP.3 7.EE.1 7.NS.3 7.G.1 7.G.2 7.G.4 8.G.7
Chapter 10 Review	249	7.SP.6 7.SP.7 7.SP.8

Chapter 11: Statistics

Note: The first lesson is intended for review.

Lesson	page	Standards
Review of Data Analysis	255	6.SP.4 6.SP.5
Random Sampling	260	7.SP.1
Using Random Sampling	264	7.SP.2
Comparing Two Populations	271	7.SP.3
Comparing Two Samples	279	7.SP.4
Chapter 11 Mixed Review	285	7.RP.3 7.NS.3 7.G.1 7.G.2 7.SP.1 7.SP.5 7.SP.7 8.G.9
Chapter 11 Review	289	7.SP.1 7.SP.2 7.SP.3 7.SP.4